ADMINISTRATION REPORTS

OF THE

FOREST DEPARTMENT

IN THE

BOMBAY PRESIDENCY,

INCLUDING

SIND,

FOR THE YEAR 1884-85.

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Bombay:
PRINTED AT THE GOVERNMENT CENTRAL PRESS.

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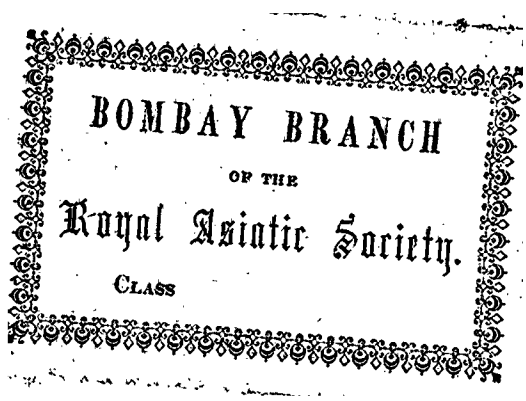

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1885.

NORTHERN CIRCLE.

No. 4238 of 1885-86.

From

A. T. SHUTTLEWORTH, Esquire,

Conservator of Forests, N. C.;

To

JOHN NUGENT, Esquire,

Secretary to Government,

Revenue Department,

Bombay.

Poona, 2nd November 1885.

Sir,

I have the honour to submit herewith the Forest Administration Report of the Northern Circle for the year 1884-85 with its subsidiary statements.

I have the honour to be,

Sir,

Your most obedient Servant,

A. T. SHUTTLEWORTH,

Conservator of Forests, N. C.

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INDEX.

NORTHERN CIRCLE.

1884-85.

Chapter.	Subject.	Para.
I.	INTRODUCTION—	
	Area and Boundaries	1
	1. Area of Reserved and Protected Forests, and the manner in which demarcation and settlement works are carried on	15
	2. Forest settlement and privileges accorded to the villagers ...	43
II.	SURVEY, WORKING PLANS, AND ANNUAL PLANS OF OPERATIONS	48
III.	PROTECTION AND IMPROVEMENT—	
	1. Establishments	51
	2. General protection and breaches of forest law	62
	3. Forest fires	72
	4. Grazing and fencing	82
	5. Natural reproduction	93
	6. Artificial reproduction	96
	7. Cutting of creepers...	109
	8. Experiments with exotic trees	110
	9. Communications and buildings	119
IV.	YIELD AND WORKING—	
	1. Departmental operations	124
	2. Removal of produce by purchasers	156
	3. Free grants of forest produce	174
	4. Summary of produce removed from the forests	175(*b*)
V.	FINANCIAL RESULTS.	176
VI.	GENERAL REMARKS.	189
	Form No. 49—Area of Reserved Forests	
	„ No. 49A— „ of Protected „	
	„ No. 50— „ of Plantations	
	„ No. 51— „ of forest tracts protected from fire	
	„ No. 52—Prosecutions for breaches of Forest Rules	
	„ No. 53—Summary of revenue and expenditure	
	„ No. 54—Account Current	
	„ No. 55—Outstandings and liabilities on account of contractors and disbursers	
	„ No. 56—Outstandings on account of revenue	
	„ No. 57—Financial results of the year	
	„ No. 58—Trees felled by Government agency	
	„ No. 59—Outturn of timber, &c., cut and collected by Government agency	
	„ No. 60—Timber, &c., received from forests in sale depôts ...	
	„ No. 61—Sales of timber, &c., cut and collected by Government agency.	
	„ No. 62—Account of timber, &c., brought to sale depôts and sold locally.	
	„ No. 63—Timber, &c., cut and removed by consumers or purchasers ...	
	„ No. 64—Revenue and expenditure on timber, &c., supplied to public Departments	
	„ No. 65A—Value of timber, &c., at sale depôts	
	„ No. 65B—Value of live stock, stores, tools and plants	

FOREST ADMINISTRATION REPORT

OF THE

NORTHERN CIRCLE, BOMBAY PRESIDENCY,

FOR THE OFFICIAL YEAR 1884-85.

INTRODUCTION.

The Forest Department Code of the Government of India was extended to the Bombay Presidency and brought into application from the commencement of this official year 1884-85, and the system of accounts provided by that Code was introduced at the same time, the office establishments having been strengthened to contend with the additional work thus brought upon Divisional Forest Officers, who are now disbursing officers and have to keep and render cash accounts direct to the Accountant General. All office business during the year has been conducted in accordance with the provisions of the Forest Code, and the present report is compiled and arranged as directed in paragraph 254, Section V, Chapter IV. of the Code, addenda and corrigenda to the 2nd edition, No. IX.

2. The composition of the Northern Circle has remained unchanged, but the distribution of Forest Officers among the several Divisions has undergone many changes, as under.

NORTHERN CIRCLE.

Mr. A. T. Shuttleworth, Conservator, 1st Grade, from 1st April 1884 to 1st May 1884 and from 7th February to 31st March 1885. Lieutenant-Colonel J. G. MacRae, Conservator, 3rd Grade, from 2nd May 1884 to 6th February 1885 :—

No.	Divisions.	Name of Officer.	Rank.	Designation.	From	To	Remarks.
1	North Thána ...	Mr. A D. Wilkins ...	Assistant Conservator, 1st Grade.	Divisional Forest Officer.	1st April 1884 ...	31st March 1885.	
		,, G. K. Shahane ...	Sub-Assistant Conservator, 2nd Grade.	Assistant	1st April 1884 ... 29th October 1884...	24th July 1884. 2nd November 1884.	
		,, G. F. R. Blackwell.	Acting do. 3rd Grade.	Do.	16th April 1884 ...	31st March 1885.	
		,, L. B. Oka ...	Do. do.	Do.	1st May 1884	24th November 1884.	
		,, G. P. Millett ...	Asistant Conservator, 3rd Grade.	Do.	5th December 1884 .	31st December 1884.	
2	South Thána ...	,, A. D. Wilkins ...	Assistant Conservator, 1st Grade.	Divisional Forest Officer.	1st April 1884 ...	14th October 1884.	
		,, R. C. Wroughton	Deputy Conservator, 3rd Grade.	Do.	15th October 1884 ...	31st March 1885.	
		,, G. K. Shahane ...	Sub-Assistant Conservator, 2nd Grade.	Assistant	3rd November 1884...	Do.	
		,, W. R. Gaunde ...	Do. 3rd Grade.	Do.	1st April 1884 ...	4th November 1884.	
		,, R. H. Madan ...	Do. do.	Do.	Do. ...	31st March 1885.	
		,, W. G. Clabby ...	Acting do.	Do.	21st April 1884 ...	15th July 1884.	
3	East Khándesh ...	,, G. M. Ryan ...	Sub-Assistant Conservator, 3rd Grade.	Divisional Forest Officer.	1st April 1884 ...	31st March 1885.	
4	West Khándesh	,, G. L. Gibson ...	Deputy Conservator, 3rd Grade.	Do.	Do. ...	12th August 1884.	
		,, G. M. Ryan ...	Sub-Assistant Conservator, 3rd Grade.	Do.	13th August 1884 ...	6th October 1884.	
		,, G. L. Gibson ...	Deputy Conservator, 3rd Grade.	Do.	7th October 1884 ...	31st March 1885.	
		,, L. D. Joshi ...	Sub-Assistant Conservator, 2nd Grade.	Assistant	1st April 1884 ...	Do.	
		,, G. P. Millett ...	Assistant Conservator, 3rd Grade.	Do.	3rd January 1885 ...	Do.	
5	Násik	,, W. G. Betham ...	Deputy Conservator, 3rd Grade.	Divisional Forest Officer.	1st April 1884 ...	Do.	
		,, W. G. Clabby ...	Acting Sub-Assistant Conservator, 3rd Grade.	Assistant	16th July 1884 ...	Do.	
	Ahmednagar ...	,, R. S. F. Fagan ...	Assistant Conservator, 3rd Grade.	Divisional Forest Officer.	1st April 1884 ...	27th July 1884.	
		,, G. K. Shahane ...	Sub-Assistant Conservator, 2nd Grade.	Do.	28th July 1884 ...	27th October 1884.	
		,, R. S. F. Fagan ...	Assistant Conservator, 3rd Grade.	Do.	28th October 1884 ...	31st March 1885.	
		,, H. Mitra	Acting Sub-Assistant Conservator, 3rd Grade.	Assistant	29th July 1884 ...	14th October 1884.	

No.	Divisions.	Name of Office	Rank.	Designation.	From	To	Remarks.
7	Poona	,, W. H. A. Wallinger.	Deputy Conservator, 1st Grade.	Divisional Forest Officer.	1st April 1884 ...	31st March 1885.	
		,, S. Hornidge ...	Assistant Conservator, 3rd Grade.	Assistant	18th October 1884 ...	19th February 1885.	
		,, W. R. Gaunde ...	Sub-Assistant Conservator, 3rd Grade.	Do.	5th November 1884...	31st March 1885.	
		,, G. S. Hinge ...	Acting do. do.	Do.	19th June 1884 ...	18th October 1884.	
		,, B. W. Joshi ...	Do. do.	Do.	13th August 1884 ...	6th October 1884.	
8	Sátára	,, G. K. Betham ...	Deputy Conservator, 4th Grade.	Divisional Forest Officer.	1st April 1884 ...	31st March 1885.	
		,, G. R. Mahajan ...	Sub-Assistant Conservator, 2nd Grade.	Assistant	Do. ...	Do. ...	Bhor State Forest Demarcation duty.
9	Sholápur ...	,, S. Hornidge ...	Assistant Conservator, 3rd Grade.	Divisional Forest Officer	Do. ...	17th October 1884.	
		,, T. B. Fry... ...	Deputy Conservator, 4th Grade.	Do.	18th October 1884 ...	31st March 1885.	
10	Surat	,, G. Hewett ...	Assistant Conservator, 2nd Grade.	Do.	1st April 1884 ...	15th January 1885.	
		,, Umedram R. ...	Deputy Collector, 4th Grade.	Do.	20th January 1885 ...	19th February 1885.	
		,, S. Hornidge ...	Assistant Conservator, 3rd Grade.	Do.	20th February 1885 ...	31st March 1885.	
11	Panch Mahals ...	,, W. J. C. Dunbar..	Deputy Conservator, 4th Grade.	Do.	1st April 1884 ...	Do.	

3. There has been a slight change in the composition of the two Forest Divisions of East and West Khándesh. Under the orders of Government Resolution No. 7801, dated 1st October 1884, in the Revenue Department, the two tálukás of the Násik Collectorate, Málegaon and Nándgaon, were transferred from East to West Khándesh, and the Amalner Táluka from the latter to the former. The following table shows the forest areas under the three Divisional Forest Officers under this arrangement :—

No.	Divisions.	Reserved Forests.		Protected Forests.		Total.	
		Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.
1	West Khándesh ...	1,568	24	217	351	1,785	375
2	East Khándesh	668	31	201	315	869	346
3	Násik	706	263	...	...	706	263

4. It will be seen from the above what a very unequal distribution of forests the existing arrangement provides, the East Khándesh charge being larger than that of Násik, while the West Khándesh Division is more than double the forest area of the East Khándesh. The Collector of Násik in forwarding the Divisional Administration Report has recorded :—

> The Collector has no further remarks to offer saving that he again wishes to call attention to the desirability from an administrative, and he thinks also financial point of view of re-attaching these two tálukás (Málegaon and Nándgaon) to the Násik Division, now that the Divisional Forest Officer, Násik, has an Assistant, there should be no objection on the ground of overwork. The Collector believes that the Divisional Forest Officer, Násik, and the Conservator of Forests are agreed with him in the subject.

5. If the two tálukás which belong to the Násik Collectorate are retransferred to the Násik Forest Division and removed from the West Khándesh Forest Division, as recommended, then the areas of the three Forest Divisions will be as under :—

No.	Divisions.	Reserved Forests.		Protected Forests.		Total.	
		Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.
1	West Khándesh... ...	1,216	493	217	351	1,434	204
2	East Khándesh	668	31	201	315	869	346
3	Násik	1,057	434	...	...	1,057	434

This will provide a much more equal distribution and at the same time it will remove the inconvenience which results from having one Divisional Forest Officer under two Collectors. The Divisional Forest Officer, West Khándesh, will still have about 300 square miles of forests in the Dhulia and Virdel Tálukás, the Nizámpur Peta and parts of Pimpalner and Nandurbár to visit during the cold weather, which will give him as much country to travel over as could be desired to provide ample employment in inspecting, supervising and directing forest conservancy and works.

6. The Reserved Forest area in the Northern Circle at the commencement of the year was 6,971 square miles 626 acres according to the figures of last year's report, but they contain forest lands provisionally notified under Section 4 of the Forest Act which, under the orders of paragraph 1 of Government Resolution No. 968 of 31st January 1885, are required to be eliminated, and a revision of the Forest lists made by the several Forest Settlement Officers has brought, mistakes in calculation to light, and consequently a rectification, involving a reduction of 378 square miles and 185 acres, has to be made from the above, which will leave 6,593 square miles and 441 acres as the correct forest area on 1st April 1884. To this has been added during the year by notifications issued under Section 19 of the Forest Act 356 square miles and 204 acres, while on the other hand 93 square miles and 351 acres have been disforested by notifications published under Section 26 of the Act; and the area of Reserved Forest remaining on 31st March 1885 stands at 6,856 square miles 377 acres. Of Protected Forests at the commencement of the year there were 1,498 square miles 161 acres; out of this quantity 542 square miles 23 acres have been reduced by relinquishments and rectification of areas, and on the other hand 180 square miles and 66 acres have been freshly created Protected Forest during the year, which leaves 1,136 square miles and 204 acres at the close of the year. The total reservations, Reserved and Protected, on the 31st March 1885, show that there were on that date in the Northern Circle under forest administration 7,992 square miles and 581 acres.

7. Additional lands selected for forests in the different Collectorates and provisionally notified under Section 4 of Forest Act, but awaiting settlement inquiries under the said Act, aggregate 771 square miles and 597 acres.

8. Forest settlement inquiries have been completed, reported upon, and the proceedings sanctioned, in respect of the old forest lands in 51¾ of the 84 forest tálukás in the Northern Circle, and in 20 other tálukás considerable progress has been made in the inquiries towards settlement, and only 12¼ tálukás remain in which no settlement inquiries have yet been attempted.

9. No increases of Superior or of Subordinate Protective Establishments have been made during the year.

10. General protection against breaches of the Forest law has been very fair except in the Thána Divisions.

11. Forest fires have been prevalent in the Forest Divisions in the Konkan and Gujarát, but protection against fire has been satisfactory in the Deccan.

12. The revenue from grass and grazing has increased, and improvement in the condition of the grass both in its quality and production has been marked in the closed areas in several Divisions.

13. The rainfall in the Deccan was neither plentiful nor seasonable, and natural and artificial reproduction in this part of the country has, in consequence, not made very rapid progress.

14. A large quantity of timber and forest produce has been exploited and brought into the market under departmental operations. Removals of timber, &c., by purchasers, &c., have been considerable. Selling prices have been good, and the forest revenue of the year has been largest on record.

CHAPTER I.

(1) AREA AND BOUNDARIES.

15. Forest demarcation and settlement works have been carried on with great vigour during the year, 16 Assistant Collectors of the Civil Service having

been specially employed upon these duties in the different Collectorates. Complete demarcation schemes of several tálukás have been prepared and submitted by them and have been disposed of by Government after the projects had been discussed and reported upon by the Revenue and Forest Departments. The *modus operandi* is as follows:—The Demarcation and Settlement Officer visits the lands of every village in the táluka where owing to the physical configuration of the country and to other circumstances the location of forest reservations would seem to be called for, and in consultation with the Divisional Forest Officer determines where the forest boundaries should be placed; a list is then prepared by him of all lands included within his scheme giving their survey numbers, areas and assessment in the case of assessed lands, and the names of occupants where the lands are occupied, and other useful particulars. At the same time judicial inquiries are undertaken under the provisions of Chapter II. of the Forest Act into the existence, nature and extent of any rights alleged to exist in favour of any person in or over any land in the táluka which has already been provisionally notified under Section 4 of the Forest Act, or was gazetted in March 1879 under Section 34 of that Act, but in regard of which inquiry into and settlement of rights have not been made in a manner which Government considers to be sufficient. The proceedings of the Forest Demarcation and Settlement Officer are then embodied in a report, which contains his recommendations of privileges, if any, which should be conceded to the forest or other villagers of the táluka, of grazing, free or on payment, of ráb, of appropriation of timber, firewood or other forest produce, &c., to which statements are attached of the lands included in the demarcation project, of the statistics of the different villages concerned as to the distribution of their lands before and after the selection for reservation was made, of the number of inhabitants, of the number of cattle &c., of rights awarded, if any; and a Topographical Survey Map upon which the proposed Reserved Forests are entered in red, and the Protected Forests in green is also attached in illustration of the proposals. All these papers are then submitted by the Forest Demarcation and Settlement Officer to the Collector of the district, who reviews them; they then go to the Divisional Forest Officer, the Conservator of Forests of the Circle and the Revenue Commissioner of the Division, in succession, who report upon them, and finally they reach Government for consideration and orders.

16. Three Special Mámlatdárs have also been employed in different Collectorates during the year under the Forest Settlement and Demarcation Officers, for the purpose of negotiating with the survey occupants and settling the terms of compensation for the acquirement of such occupied lands as may have been taken into the demarcation projects.

17. The following table shows the forest areas in the different Collectorates comprising the Northern Forest Circle as they stood on the 1st April 1884, the additions and exclusions therefrom, and the final figures at the close of the year:—

No.	Collectorates.	Area on 1st April 1884.				Added during the year.				Disforested or reduced by rectification of Areas.				Area on 31st March 1885.			
		Reserved.		Protected.		Reserved.		Protected.		Reserved.		Protected.		Reserved.		Protected.	
		Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.
1	Thána	600	389	386	46	48	206	8	593	63	532	215	545	585	562	679	94
2	Khándesh	1,725	36	556	458	159	625	161	144	...	137	208	576	1,884	524	419	26
3	Násik	1,046	94	...	...	29	71	...	...	17	371	...	...	1,057	434	...	...
4	Ahmednagar	799	346	...	...	30	274	9	416	54	168	...	...	775	452	9	416
5	Poona	744	160	...	...	2	244	...	...	147	99	...	...	599	305	...	...
6	Sátára	625	597	...	...	9	436	...	...	33	124	...	...	602	269	...	...
7	Sholápur	243	106	...	...	74	282	..	193	143	465	...	...	173	563	...	193
8	Surat	66	452	...	...	1	626	...	...	...	...	...	...	68	438	...	...
9	Dángs	900	...	...	...	...	...	...	...	...	...	...	...	900	...	...	...
10	Kaira	...	39	...	...	...	...	...	...	...	...	...	...	...	39	...	...
11	Panch Mahális	220	347	55	297	...	...	...	...	5	517	27	182	214	470	28	115
	Total ...	6,971	626	1,498	161	356	204	180	66	466	598	542	23	6862	287	1,136	204

18. The figures representing the areas of Reserved and Protected Forests on the 1st April 1884 are taken from last year's printed report, but they are open to very considerable revision, as they include land which had only been

provisionally notified under Section 4 of the Forest Act and have not been finally constituted Reserved Forests, and cannot therefore be considered to be under conservancy administration, and according to the orders of Government in paragraph 1 of Government Resolution No. 968 of 31st January 1885 are to be omitted; a rectification of areas has shown that the old totals were in many cases very inaccurate. The figures representing the area on the 31st March 1885 have been supplied by the Forest Settlement Officers of the different Collectorates and may therefore be depended upon. The acreages of the lands added to forests during the year, and of the lands disforested have likewise been furnished by these officers. The above statement exhibits additions representing 356 square miles 204 acres to Reserved Forests and 180 square miles 66 acres to Protected Forests made under notifications which have been published under Sections 19 and 28 of the Forest Act, while the "disforestations" during the year which have been made under Section 26 of the Forest Act as concerns Reserved Forests represent 93 square miles 268 acres: of Protected Forests 88 square miles 351 acres have been excluded, but a considerable portion of these lands will be converted into Reserved Forests, and have been notified accordingly under Section 4 of the Forest Act. The rectification of areas therefore involves a reduction of 378 square miles 185 acres of Reserved and 453 square miles and 312 acres of Protected Forests.

I.—THA'NA COLLECTORATE.

19. Mr. Edward Lawrence, C. S., was Forest Settlement and Demarcation Officer for the Karjat, Sálsette, Bhiwndi, Murbád, Bassein, Máhím and Váda Tálukas and Mr. John De Courcy Atkins, C. S., for the Kalyán, Sháhápur and Dáhánu Tálukas. The latter officer was employed also in making an exhaustive inquiry into the rights by purchase of teak trees on occupancy holdings in the Kalyán Táluka, and submitted an excellent report on the subject, upon which Government Resolution No. 8658 of the 3rd November 1884 was passed. Mr. Atkins likewise conducted the settlement inquiries of the Sálsette Táluka, while Mr. Lawrence was absent on six months' leave to Europe. During the year Government passed orders:—

(*a*). In their Resolution No. 2988 of the 9th April 1884 on Mr. Lawrence's settlement report and demarcation project of the Sálsette Táluka, whereby the area of the future Reserved Forests of the táluka was fixed at 15,116¼ acres and of the Protected Forests 2,594 acres.

(*b*). In their Resolution No. 5251 of 1st July 1884 on Mr. Lawrence's settlement report and demarcation project of the Bhiwndi Táluka, whereby the area of the Reserved Forests was fixed at 39,524 acres and of the Protected Forests at 8,823 $\frac{3}{10}$ acres.

(*c*). In their Resolution No. 8018 of the 10th October 1884 on the preliminary settlement and demarcation of the Karjat Táluka by Mr. Lawrence but work is not completed here yet.

20. A supplementary report on the Sálsette Táluka was submitted by Mr. Lawrence on the 6th February 1885, and on the Bhiwndi Táluka on the 27th March, on the Karjat Táluka on 31st March, and the settlement and demarcation report of the Bassein Táluka on the 1st April 1885, but the orders of Government were not issued before the close of the year; while Mr. Atkins submitted his settlement and demarcation report of the Kalyán Táluka in November 1884, and of the Mokháda Peta of Sháhápur Táluka on 31st March 1885; orders upon these documents came out after the year had expired.

II.—KHA'NDESH COLLECTORATE.

21. Mr. H. T. Ommanney, C. S., was Forest Settlement and Demarcation Officer from 1st April 1884 up to 16th March 1885, but from 21st July to 10th October 1884 was on privilege leave, during which period Mr. Propert, the Collector, had charge of the office. Mr. R. A. Lamb, C. S., succeeded to the office on the 17th March 1885 when Mr. Ommanney proceeded on furlough.

22. During the year the demarcation of the Reserved Forests in the Shirpur Táluka was completed, boundary-marks were erected on the ground, and a project for extending the reservation was submitted, but was not disposed of before the

31st March 1885. A preliminary demarcation of 3 small Reserved Forests in the Navápur Peta in the Tápti valley was effected, and notifications were published under Section 4 of the Forest Act in respect of the lands thus selected. The boundary line between the Dáng States of Surgána and Dharampor was determined. Certain claims to forest rights in Dhagapada in the leased Dángs were inquired into, and settled in favour of Government; the limits of cultivation were marked off on the ground within the boundaries of the Nesu Reserved Forest. A supplemental demarcation and settlement report was submitted regarding the conversion of the "Protected Forests" of the Sávda and Chopda Tálukas into Reserved Forests with the addition of some available waste lands, upon which Government passed orders in Government Resolution No. 7061 of 4th September 1884, and also upon the demarcation and settlement of the Sháháda Táluka forests, upon which Government Resolution No. 7527 of 22nd September 1884 was issued. Finally the revision of the demarcation in the Bhúsával and Jámner Tálukas was completed, and reports of the work together with the settlement were submitted to Government.

III.—NA'SIK COLLECTORATE.

23. Mr. C. E. Frost, C. S., was Forest Settlement and Demarcation Officer for all the tálukas above ghâts throughout the year, and Mr. Evelyn Gray, C. S., for the Peint Táluka. The principal work done during the year by Mr. Frost has been—

(1). The demarcation in certain Inám villages of the Kalvan Táluka, sanctioned in Government Resolution No. 785 of 27th January 1885.

(2). The settlement and final location of all Dalhi cultivation in the Kalvan Táluka, sanctioned in Government Resolution No. 785 of 27th January 1885.

(3). The preliminary demarcation and notification under Section 4 of the Forest Act of a Reserved Forest comprising 2,220 acres in the Government village of Shribhowan and the extension of the existing reservations in five other villages of the Kalvan Táluka.

(4). The completion of the forest settlement of the Násik and Sinnar Tálukas, sanctioned by Government Resolutions Nos. 23 of 5th January 1885 and 1982 of 9th March 1885.

(5). The preparation of the Forest Registers for the tálukas of Kalvan, Báglán, Nándgaon and Niphád.

(6). The revision of the settlement and demarcation of the Málegaon Táluka; report submitted to Government.

(7). The further demarcation and settlement of the Yeola and Chándor Tálukas, reports on which have been submitted.

(8). $203\frac{7}{10}$ acres of occupied lands included within forest reservations were purchased for Rs. 306.

24. Mr. Evelyn Gray, C. S., carried out the demarcation of Reserved Forests in 59 villages of Peint; 5,468 acres of additional lands were notified under Section 4 of the Forest Act, but the orders of Government were not passed upon the work before the close of the year.

IV.—AHMEDNAGAR COLLECTORATE.

25. Mr. A. F. Woodburn, C. S., has been Forest Settlement and Demarcation Officer during the year, and the following demarcation projects and the settlement of existing forests have been completed:—

(1) Shrigonda Táluka, placing $51,152\frac{7}{10}$ acres into Reserved Forests, sanctioned by Government Resolution No. 3991, dated 17th May 1884.

(2) Párner Táluka, placing $77,597\ \frac{32}{40}$ acres into Reserved Forests, sanctioned by Government Resolution No. 5952, dated 23rd July 1884, in the Revenue Department.

(3). Of Akola Táluka, 29 villages, placing $23,405\frac{5}{10}$ acres into Reserved Forests, sanctioned in Government Resolution No. 7999, dated 9th October 1884.

(4). Nine Dalhi villages on the Akola ghâts, placing into Reserved Forests 28,508 $\frac{34}{40}$ acres, and into Protected Forests 6,176$\frac{34}{40}$ acres, sanctioned by Government Resolution No. 6062, dated 28th July 1884.

26. Mr. Woodburn likewise completed the demarcation, and as regards lands notified under Section 34 of the Forest Act, the settlement, of the following tálukas:—

		Acres
Nagar with a proposed forest area	... ...	45,296$\frac{21}{40}$
Jámkhed	do.	41,738$\frac{20}{40}$
Shevgaon	do.	21,868$\frac{5}{40}$

and submitted reports upon them, but they were not disposed of before the close of the year. The settlement inquiries in respect of the lands gazetted under Section 34 of the Ráhuri Táluka, 43,114 acres, and of the Sangamner Táluka 94,567, were completed, but not reported upon.

27. With the assistance of the Special Duty Mámlatdár, Mr. Ganesh Pándurang Thákar, who was employed upon forest acquisitions in the Collectorate throughout the year, the following negotiations for the acquirement of occupied lands included within the demarcation projects were effected, but the lands were not notified under Section 4 of the Forest Act before the close of the year:—

No.	Tálukas.	Lands purchased.	Compensation paid.	Lands given in exchange.
		A. g.	Rs. a. p.	A. g.
1	Karjat	3,051 1	388 13 0	2,629 16
2	Shrígonda	2,858 20	629 5 0	2,375 28
3	Párner	1,004 32	744 12 0	1,086 18

V.—POONA COLLECTORATE.

28. Mr. A. B. Steward, C. S., was Forest Settlement and Demarcation Officer at the beginning of the year and up to the 27th October 1884 when Mr. H. E. Winter, C. S., relieved him and remained in charge till the 24th March, and the Collector Mr. W. A. East held the office from the 25th to 31st of that month.

29. The following work was performed during the year:—

(*a*) The demarcation of the forests of the A'mbegaon Peta whereby 59,675$\frac{7}{8}$ acres are to become Reserved Forests, and the settlement of the old forest lands, and also of the Koita holdings, *i. e.*, rights of Dalhi cultivation, have been completed by Mr. Steward, and were sanctioned by Government Resolution No. 2102, dated 18th March 1885.

(*b*). The revised demarcation of the Bárámati Peta effected by Mr. Winter, C. S., whereby the Reserved Forest area will be increased to 16,188 acres was sanctioned by Government in Resolution No. 2649, dated 28th March 1885.

(*c*) The demarcation of the forests, *i.e.*, the selection of lands, existing forest, waste, occupied, &c., for forest reservation in the Purandhar and Junnar Tálukas, was completed and reports submitted, but orders were not passed before the close of the year. The demarcation of forests in 50 villages of the Haveli Táluka was likewise finished.

(*d*) The settlement of all the provisionally notified Reserved Forests in the Bárámati Peta, Bhimthadi Táluka, and in some villages of the Khed, Indápur and Haveli Tálukas, was completed.

30. Mr. Anant Abáji Bhosekar, Special Duty Mámlatdár, was employed throughout the year under the Demarcation and Settlement Officer in negotiations for the acquirement of occupied lands included within the demarcation schemes of different tálukas with the following results:—

No.	Tálukas, Petas.	Lands purchased.		Lands obtained by exchanges.	Total Acreage acquired.
		Area.	Compensation.		
		A. g.	Rs. a. p.	A. g.	A. g.
1	Junnar	1,300 20½	8,815 8 0	133 3	1,433 23½
2	Havéli	161 22	744 8 0	196 37	358 19
3	Bárámati	91 18	580 0 0	.....	91 18
4	Khed	38 20	698 4 0	.....	38 20
5	A'mbegaon	97 22¾	40 0 0	.....	97 22¾
6	Sirúr	113 8	412 8 0	.....	113 3
7	Mával	797 26½	7,089 8 0	626 20½	1,424 7
8	Mulshi	1,141 6¼	2,660 4 0	290 29	1,431 35¼
9	Bhimthadi	.....	.....	51 22	51 22
10	Purandhar	109 10	713 8 0	.....	109 10
	Total ...	3,850 34	21,754 0 0	1,298 31½	5,149 25½

31. The total expenditure in the Poona Collectorate charged against the year on account of compensation for land and rights amounts to Rs. 21,754, and it includes some purchases made in the preceding year, which were not debited before the end of that year.

VI.—SA'TA'RA COLLECTORATE.

32. Mr. Muir-Mackenzie, C. S., has been Forest Settlement and Demarcation Officer, and the following is an account of the progress made by him during the year :—

(1) The demarcation of the Mán Táluka by Government Resolution No. 779, dated 28th January 1885. The total area of this sub-division including Inám villages is 415,549 acres and exclusive of them 382,750 acres. In March 1879, 35,690$\frac{2}{4}\frac{}{0}$ acres were gazetted as Reserved Forests under Section 34 of the Forest Act, and 1,006½ acres of this were subsequently disforested under Section 26 of the said Act, concurrently 3,285¼ of additional lands had been proposed as Reserved Forests and notified under Section 4. The present demarcation scheme provides—

(*a*) For a further disforestation under Section 26 of 350$\frac{5}{8}$ acres.

(*b*) For the abandonment of 122$\frac{3}{4}\frac{1}{0}$ acres which have been notified under Section 4.

(*c*) For the addition of 4,550$\frac{3}{4}\frac{}{0}$ acres of waste lands to be notified under Section 4.

(*d*) For the obtainment of 31,903$\frac{2}{3}$ acres of occupied and Inám lands to be acquired by negotiation.

Thus when all these measures have been completed 73,949$\frac{3}{2}\frac{}{0}$ acres will be under forest conservancy, representing about 17·7 per cent. of the acreage of the táluka.

(2) The demarcation of the Koregaon Táluka which provides for the reservation of 36,321$\frac{1}{1}\frac{}{0}$ acres equal to 17 per cent. of the entire area of the sub-division. The settlement of the old forest lands has also been completed, and the only rights which have been found to exist are right of way and of resorts to certain temples and other sacred places.

(3) The forest settlement and demarcation proposals of the Khatáv, Pátan, Karád and Tásgaon tálukás have been completed, but the reports had not been submitted before the close of the year.

(4) The lands acquired by purchase during the year are shown below together with the amounts paid for them :—

No.	Tálukas.	Area purchased.		Compensation paid.		
		A.	g.	Rs.	a.	p.
1	Mán	1,114	32	39	0	0
2	Sátára	112	12	213	0	0
3	Khatáv	297	34	289	8	0
4	Koregaon	212	16	490	12	0
5	Khánápur	816	21	1,105	8	0
6	Wái	179	18	376	8	0
7	Tásgaon	487	6	657	8	0
8	Jávli	380	37	862	0	0
9	Válva	287	16	514	0	0
10	Mahábaleshvar	11	34	26	8	0
11	Pátan	787	1	677	2	0
12	Karád	232	6	1,280	0	0
	Total ...	4,919	33	6,531	6	0

VII.—SHOLA'PUR COLLECTORATE.

33. Mr. H. F. Silcock, C.S., assumed charge of the Forest Demarcation and Settlement Office on the 20th October 1884 from several Assistant Collectors who were *ex-officio* Settlement Officers.

34. A preliminary demarcation and the settlement of already gazetted forest lands in the Sholápur Táluka had been completed by Mr. Spence, C.S., in the preceding year and was disposed of by Government during the current year in their Resolution No. 5189, dated 27th June 1884, Revenue Department, which sanctioned the constitution by a notification published under Section 19 of the Forest Act of 20,358¾ acres as Reserved Forest and the disforestation by a notification under Section 26 of the said Act of 385$\frac{7}{40}$ acres. A revision of the demarcation project and the settlement of all the lands notified under Section 4 of the Forest Act was undertaken by Mr. Silcock, but his proposals were not disposed of before the end of the year.

35. A demarcation project for the Karmála Táluka prepared by Mr. Sorabji Padamji, C.S., Assistant Collector, was not accepted by Government in Resolution No. 8433, dated 27th October 1884, and Mr. Silcock was directed to undertake the work and considerable progress had been made up to 31st March 1885; 39,646$\frac{9}{40}$ acres remain to be settled in this táluka.

36. The demarcation and settlement of the forests in the Akalkot State which is in the Political charge of the Collector of Sholápur was carried out by Mr. Hillersden Woodward, and sanctioned by Government in Resolution No. 10041, dated 22nd December 1884: 27,204$\frac{7}{40}$ acres were thus finally constituted Reserved Forest by notification published under Section 19 of the Forest Act, and 4,823½$\frac{7}{40}$ acres were provisionally notified under Section 4 but remained to be settled at the end of the year, and the acquisition of 1,335$\frac{3}{40}$ acres of occupied lands was approved of; the larger proportion of these lands has been obtained by private negotiation.

37. The demarcation scheme and settlement arrangements of the Pandharpur Táluka have likewise been completed by Mr. Silcock, but were not submitted within the year.

38. The following purchases of occupied lands included within forest reservations in different tálukas have been made during the course of the year:—

No.	Tálukas.	Area.		Compensation.		
		A.	g.	Rs.	a.	p.
1	Sholápur	254	20	800	0	0
2	Málsiras	161	30	128	0	0
3	Mádha	28	30	75	0	0
	Total ...	445	0	1,003	0	0

VIII.—SURAT COLLECTORATE.

39. Mr. Kharsedji Ratanji Bomanji, C.S., Assistant Collector, reported upon the forest settlement of selected forest lands in 13 villages of the Mándvi Táluka, but the matter was not disposed of during the year, and Mr. Umedrám Ranchordás reported to the Collector on the 26th March regarding the settlement of 406$\frac{19}{20}$ acres of provisionally notified forest lands in the Bulsár Táluka and of 88$\frac{1}{4}$ acres in the Párdi Táluka. Thus it will be seen that there have been no expansions or disforestations of the forest areas in this district.

IX.—PANCH MAHA'LS.

40. Mr. A. Shewan, C.S., was appointed Forest Demarcation and Settlement Officer on 29th September 1884, and was succeeded by Mr. W. Morison, C.S., on the 23rd January 1885. A demarcation scheme was submitted by Mr. Shewan for the sanction of Government for the Kálol Táluka whereby 22,318$\frac{3}{5}$ acres are to be constituted Reserved Forests distributed over six blocks. Selections for reservation had also been made by Mr. Morison in 80 villages of the Godhra Táluka before the 31st March 1885.

(1) Foreign States.

41. Mr. Govind Rámchandra Máhájan, Sub-Assistant Conservator, continued the selection of lands for reservation in the Bhor State working in co-operation with the Pant Sachiv's Forest Officer. Demarcation was effected in 43 villages of the Pown Mával involving an area of 13,943 acres selected for reservation.

42. The expenditure incurred during the year upon the creation and constitution of forests in the Northern Circle has amounted to Rs. 73,583-4-11 and is distributed as under :—

	Rs.	a.	p.
B. I, II. and III. Salaries, travelling allowances of Special Mámlatdárs and of establishments employed under Forest Settlement and Demarcation Officers and the contingent expenditure incurred by the latter	31,905	0	3
A. VIII. (*a*) Demarcation	1,693	14	11
(*b*) Compensation for land and rights	39,984	5	9
	73,583	4	11

(2) Forest Settlements, and Privileges accorded to Villagers.

43. The following table exhibits the number of forest tálukas in each Collectorate, the number in respect of which the forest settlements of the old forest lands have been completed up to the end of the year, the number in which settlement inquiries are in progress and the number in which no forest settlement has yet been attempted :—

No.	Collectorates.	Number of Forest Tálukas.	Number of Tálukas in which Forest Settlement has been completed.	Number of Tálukas in which Forest Settlement has progressed.	Number of Tálukas in which no Settlement has been attempted.	Remarks.
1	Thána	10	3	2$\frac{1}{2}$	4$\frac{1}{2}$	
2	Khándesh	16	16	...	...	
3	Násik	12	11	$\frac{1}{4}$	$\frac{3}{4}$	
4	Ahmednagar	11	3$\frac{1}{4}$	4	3$\frac{3}{4}$	
5	Poona	8	5$\frac{1}{2}$	2$\frac{1}{4}$	$\frac{1}{4}$	
6	Sátára	12	6	6	...	
7	Sholápur	7	3	3	1	
8	Surat	3	3	...	...	
9	Panch Maháls	5	1	2	2	
	Total ...	84	51$\frac{3}{4}$	20	12$\frac{1}{4}$	

44. But in the greater number of the tálukas in every Collectorate additional lands selected for forest reservation have been notified under Section 4 of

the Forest Act, and claims to forest rights concerning them still remain to be enquired into and settled. The following table exhibits the areas which have been provisionally notified awaiting settlement in the different Collectorates:—

No.	Collectorates.	Area.	
		Square Miles.	Acres.
1	Thána...	43	132
2	Khándesh	183	487
3	Násik	45	504
4	Ahmednagar	30	587
5	Poona	136	467
6	Sátára...	18	391
7	Sholápur	142	625
8	Surat	.....	495
9	Panch Mahál	169	109
	Total ...	771	597

45. With very few exceptions the only rights which the Forest Settlement Officers have found to be existing in the forests of Government villages, and of Inám villages where rights have not been alienated, are rights of way, of access to water and of approach for worship to shrines and idols situated within forest limits.

46. The orders of Government regarding the privileges to be allowed in the forests of the Thána Divisions provide—

Grazing.—"The inhabitants of forest villages, other than professional graziers, may be allowed to graze their cattle free of charge and also to cut free of charge for their own use grass in the unclosed compartments of the Reserved Forests, (and in cases where the Divisional Forest Officer sees no objection, in the closed portions also), and in the whole Protected Forests. This privilege should be extended to persons who, though not actually residing in the villages, own lands therein, the only restriction imposed in their case being that the privilege should be limited to cattle used for agricultural and domestic purposes, the property or persons who are not professional cattle-dealers."

"Inhabitants of non-forest villages and Dhangars may be allowed to graze their cattle in the unclosed portions of the Government forests, as also in the closed portions with the permission of the Divisional Forest Officers, on payment of the prescribed fees. The grass and grazing on the old gurcharan lands included in forest should not be sold by auction by the Forest Department where such a course would unduly interfere with the sufficient supply of the requirements of the forest villagers in respect of grazing and grass for their cattle and for *ráb*."

Ráb.—"In the Reserved Forest area the inhabitants of forest villages are allowed to take free of charge for their own use from the unclosed portions, and with the permission of the Divisional Forest Officer from the closed portions, grass, reeds, leaves (other than those of Temburni and Apta), the ten classes* of shrubs specified in the margin, and generally all brushwood of no value for any other purpose. The Reserved Forest blocks are required to be divided into a number of compartments of which one or more be cleared yearly, the timber being felled for sale, and then closed for a period of years, cuttings being thus made in rotation and the block being worked on scientific principles. The inhabitants of forest villages in which the block is situated and of adjacent villages in whose forest blocks no cuttings were that year being effected should be permitted to cut and remove not only the brushwood, &c., in the compartment in which the trees were

* Korinda, ukshi, bakali, kuda, kala-kuda, gometi, kevni, torni, bhor jambhul, and bhokad.

In the Resolution No. 2988, dated 9th April 1884, passed on the Forest Settlement Report of the Sálsette Táluka it was ordered that the shrubs known as *hátrun*, *kudeh*, and *mastode* should be added to the ten specified varieties.

being felled, but also both before and after the trees had been felled, to lop and take all the twigs, branches, and small boughs not required by the Forest Department for manufacture into fuel. Care should be taken to give the villagers timely notice beforehand when and where the cuttings will take place, and so to arrange the date of the cuttings that it shall as far as possible coincide with the time for preparing and burning the *ráb*. When a working plan is elaborated similar privileges may be allowed in the compartments or areas where fellings are made in the year.

"In respect of *ráb* privileges in the Protected Forests, the inhabitants of the villages in which such forests are situated may, in addition to cutting reeds, grass, brushwood, &c., lop for *ráb* the side-branches, but not the leading shoot of all trees growing in the Protected Forest, except those* marginally noted. The lopping of ain, dhaura, bonda and nana (which are held in special favour for *ráb*) should be allowed.

*Teak, blackwood, tiwas, mango, khair, kalam, bibla, asana, nana, koshimb and bed.

"These privileges should be extended to a non-resident holder of land in a forest village, who may take from the forest lands of the village materials for *ráb* for his land situated in the village, but not for any land he may hold in any other village.

"The privileges thus accorded to the inhabitants of forest villages cannot be extended to the inhabitants of non-forest villages. If these are unable to obtain from the *varkas* lands comprised in their holdings sufficient supply of materials for *ráb*, they must procure what they require by purchase from private dealers or from the Forest Department."

Firewood.—"The inhabitants of forest villages may be permitted to cut wood for fuel in the unclosed portions of the Government Reserved Forests, and when the Divisional Forest Officer perceives no objection in the closed portions also, and in all the Protected Forest area. The fuel so collected is to be for their own use, and not for sale. Inhabitants of non-forest villages have no claim to collect firewood in lands beyond their own village limits, and must obtain any firewood they may require beyond what their own lands can supply by purchase either from the Forest Department or from private wood-dealers. When cuttings are being made in the Government forests, due and timely notice of the fact should be given in the non-forest villages and persons should be encouraged to buy there any wood which they may require for fuel or other purposes.

"Smaller forest blocks where the dead-wood supply is only sufficient to meet the wants of the inhabitants of the adjacent forest villages should be closed to dealers and the forest tribes of other parts of the táluka or of other tálukas."

Collection of fruits and minor forest produce.—"This privilege may be granted free to the inhabitants of forest villages, and may be exercised in the closed as well as the unclosed compartments. Hirdas, shikakái, behedas and mowra flowers should be strictly reserved to Government. The only other articles of minor forest produce which should be reserved to Government are the leaves of the apta and temburni. The inhabitants of forest villages should be allowed to collect the leaves of the palas for their own use from the Protected and open Reserved Forests. They should also be allowed to take free of charge for their own use leaves from teak trees growing in Protected Forests and in occupied numbers, and from the teak trees felled within the area of Reserved Forests that may be set apart for felling operations each year."

Kárvi and Thorns.—"In Protected Forests forest villagers may be allowed to remove thorns and kárvi without passes. Government also see no objection to allowing the taking without a pass of kárvi from the unclosed portions of the Reserved Forests by forest villagers. Thorns may be taken by the inhabitants of forest villages from the unclosed parts of Reserved Forest on passes, for which no fees should be charged. The total destruction of thorns would be very injurious to the forests and militate against the growth of young trees. It is necessary therefore to place some restriction on the cutting and removal of thorns, and this can best be effected by allowing them only to be taken on passes which should be freely and without delay granted to applicants in such areas and to such extents as may seem advisable to the Divisional Forest Officers."

Earth and Stones.—"Villagers should be allowed to take free of charge earth and stones required for purely agricultural purposes from Protected Forests, and with the previous permission of the round-guard in charge from the unclosed portions of Reserved Forests."

Wild tribes.—"The Thákurs, Kátkaris, Warli and other wild tribes should be granted all the privileges accorded to the inhabitants of forest villages, and in addition should be allowed to cut grass, and collect and remove dead wood for sale free of charge, being however warned that the last-mentioned privilege will be revoked if it is found to be abused by them by the destruction of live-wood one season to ensure a large supply of dead wood in the next. They should also be allowed to collect the leaves of the Palas for use and sale. Their services should be fully utilized by the Forest Department in the collection of the reserved minor forest-products such as Hirdas, Mowra, &c. The special additional privileges of the wild tribes mentioned above need not be given in Sálsette where the Forest Settlement Officer considers them to be unnecessary. No objection exists to the taking by the wild tribes of wood of the common descriptions for the construction of or repairs to their huts."

47. A Code of Rules regarding the exercise of privileges in the forests of the Khándesh Collectorate was issued by the Collector under authority of Government Resolution No. 6298, dated 6th August 1884, Revenue Department, of which the following is a copy:—

X.—CODE OF RULES REGARDING THE EXERCISE OF PRIVILEGES IN THE FORESTS OF THE KHANDESH COLLECTORATE.

Division I.

Including the Tálukas lying to the North of the River Tápti, also Nandurbár and Pimpalner (including Nizámpur and Navápur.)

1. The inhabitants of Reserved jungle villages may, in the unclosed portions of the Reserved Forests of which their village lands form a part, free of charge—.

(*a*) Graze all cattle *bonâ fide* their own property.

(Note.—This permission does not apply to professional graziers and only extends to the Reserved Forests in the proximity of each village.)

(*b*) Cut and remove grass for their own use.

*(1) Teak.	(7) Tiwas.	(12) Mango.	(*c*) Cut and remove live-wood, excepting the reserved* kinds, for their own use; but not for sale or barter.
(2) Blackwood.	(8) Hirda.	(13) Charoli.	
(3) Ain.	(9) Dhaura.	(14) Mowra.	
(4) Chinch.	(10) Nim.	(15) Jambul.	
(5) Babul.	(11) Aonla.	(16) Anjan.	
(6) Khair.			

(*d*) Collect dead wood (except Teak, Tiwas and Khair) for fuel for domestic use but not for sale or barter.

(*e*) Cut Baru for their own use.

(*f*) Take Khari earth and Teak leaves for their own use.

2. The inhabitants of Protected Forest villages may, in unclosed Protected Forests, enjoy the same privileges as those in Reserved Forest villages free of charge.

3. Special privileges granted to Bhils and other wild tribes in unclosed Reserved and unclosed Protected Forests:—

(*a*) They may collect dead wood of all kinds (except Teak, Tiwas and Khair) for private use free of charge.

(*b*) On Teak, Tiwas and Khair dead wood a fee of Rs. 4 per cart-load and annas 4 per head-load will be imposed.

(*c*) On the remaining descriptions of reserved dead wood a fee of Rs. 2 per cart-load and annas 2 per head-load will be imposed when brought for sale or barter.

(*d*) Unreserved dead wood may be collected free of charge for sale or barter.

(NOTE.—The manufacture of charcoal will not be permitted within the Forest boundaries).

(*e*) They may take free of charge thorns and brushwood, except of the 16 reserved kinds, for private use, barter or sale.

(*f*) They may cut free of charge live-wood, except the 16 reserved kinds, for their own domestic use.

(*g*) They may cut for sale or barter live-wood (of all but the 16 reserved kinds) and Bamboos at the rates given below:—

	Rs.	a.	p.
Each cart-load of unreserved wood ...	1	0	0
Each head-load of do. ...	0	1	0
Large Bamboo per 100	2	0	0
Small do. do.	1	0	0
Head-loads of Bamboos	0	2	0

(*h*) They may graze cattle *bonâ fide* their own property free of charge.

(*i*) They may cut grass and Baru for their own use or for sale or barter free of charge.

(*j*) They may cut Bamboos for domestic use or for their own manfuctures free of charge.

(*k*) They may collect honey, wax, gum, mowra and other minor products for sale or barter free of charge.

DIVISION II.

Including the Southern Tápti Tálukas; Nandurbár and Pimpalner (with Petas) excepted.

1. The inhabitants of Reserved and Protected Forest villages may in the unclosed portions of the forests of which their village lands form a part—

(*a*) Graze free of charge all cattle *bonâ fide* their own property. This does not apply to professional graziers.

(*b*) Cut grass and Baru for their own use free of charge.

(*c*) Collect Khari earth and Teak leaves free of charge.

2. Special privileges accorded to Bhils and other wild tribes in all unclosed forests:—

(*a*) They may collect dead wood of all kinds (except Teak, Tiwas and Khair) free of charge for their own use.

(*b*) On Teak, Tiwas and Khair dead wood a fee of Rs. 4 per cart-load and of annas 4 per head-load will be imposed.

(*c*) On the remaining descriptions of reserved dead wood a fee of Rs. 2 per cart-load and of annas 2 per head-load will be imposed when brought for sale or barter.

(*d*) Unreserved dead wood may be collected free of charge for sale or barter.
NOTE.—The manufacture of charcoal will not be permitted within the Forest boundaries.

(*e*) They may take thorns and brushwood (except of the 16 reserved kinds) for private use, barter or sale, free of charge.

(*f*) They may graze cattle *bonâ fide* their own property free of charge.

(*g*) They may cut grass for their own use for sale or barter free of charge.

(*h*) They may collect honey, wax, gum, mowra, and other minor products for sale or barter free of charge.

Notes.

1. Goats will not be permitted to graze in the forests without the Divisional Forest Officer's express permission.

2. The term Reserved jungle villages includes every village—

(*a*) of which some land has been included in Reserved Forest;

(*b*) of which the boundary touches Reserved Forest.

The term Protected Forest village includes every village—

(*a*) of which some land has been included in Protected Forest;

(*b*) of which the boundary touches Protected Forest.

4. The inhabitants of other than forest villages have no forest privileges.

5. The privilege of grazing in forests extends to the whole forest block to which the several villages are adjacent, but does not extend to forest blocks at a distance.

6. The North Tápti Tálukas include Taloda, Sháháda, Shirpur, Sávda with the Yával and Ráver Pethas, and (by special order) Pimpalner with Navápur and Nizámpur and Nandurbár and also Chopda.

7. The South Tápti Tálukas include all the remaining portion of Khándesh.

8. Under Section 78 of the Forest Act all persons enjoying privileges in forests of either description are bound—

(*a*) to give information respecting the commission of any forest offence;

(*b*) to assist Government officers in extinguishing forest fires and in preventing theft, mischief, and other forest offences, and in discovering and arresting offenders.

W. H. PROPERT,
Collector of Khándesh.

CHAPTER II.

SURVEYS, WORKING PLANS AND ANNUAL PLANS OF OPERATIONS.

48. The survey by the Topographical Survey parties of the Government of India, of the Thána Collectorate, on the scale of 4 inches = 1 mile, has progressed towards completion, the field work will be finished by the close of the working season 1885; the survey of the Panch Mahál upon the same scale has likewise been carried on, and the survey of the Dángs on the 4 inches scale has been finished, but the maps are not all published yet.

49. The preparation of working plans for forests has not yet been commenced, save in the Ahmednagar Division, where working plans of the teak forests in the Akola and Sangamner Tálukas were made by Mr. Hight when Divisional Forest Officer some years back, and all operations in these forests are now carried on in strict accordance with these plans. However in the North Thána Division the Bábul (Acacia arabica) Reserves of Kandiwli and Boriwli in the Sálsette, which are to be worked for firewood, and cover an area of about 250 acres have been divided into 20 compartments, the first of which was cut over this year, the trees having been sold standing to a purchaser for Rs. 4 per 100 cubic feet of wood, the outturn of 14 acres and 18 gunthás amounted to 11,360 cubic feet. In the South Thána Division a preliminary working plan was drawn up for the Bao Malang Reserved Forest of Kalyán Táluka; and a similar working plan for the forest of the Inám village of Khatewli in the Sháhápur Táluka, one-half of which belongs to Government, has been in operation for some years, the whole forest is sub-divided into 25 compartments one of which is cleared annually.

50. The expenditure of the year under A. VIII. C. Surveys and Working Plans has amounted to Rs. 4,429-14-6.

CHAPTER III.

PROTECTION AND IMPROVEMENT.

(1). ESTABLISHMENTS.

51. The superior Forest staff in the Northern Circle, which contains 11 Forest Divisions, consisted during the year of—

One Conservator of Forests,
Eight Deputy Conservators of Forests,
Five Assistant Conservators of Forests,
Six Sub-Assistant Conservators of Forests.

52. Mr. Shuttleworth, Conservator of Forests, 1st Grade, was absent on furlough to Europe from the 2nd May to the 6th February 1885, during which period Lieut.-Colonel J. G. MacRae, Conservator of Forests, 3rd Grade, held charge of the Northern Circle.

53. Of the Deputy Conservators the following enjoyed leave during the year:—

(1). Mr. G. St. P. L. Gibson, 3rd Grade, on privilege leave from 13th August to 7th October 1884.

(2). Mr. R. C. Wroughton, 3rd Grade, on furlough to Europe from 1st April 1884 to 15th October 1884.

(3). Mr. H. Mainwaring, 4th Grade, on furlough to Europe throughout the year.

(4.) Mr. T. B. Fry, 4th Grade, on furlough to Europe from 1st April to 15th October 1884.

And of the Assistant Conservators Mr. R. S. Fagan, 1st Grade, on privilege leave for 3 months from 28th July to 27th October 1884.

54. It was with regret the Conservator had to report the death of Mr. Geo. Hewett, Assistant Conservator of Forests, 2nd Grade, on the 15th January while in charge of the Surat Forest Division. Mr. Hewett had served in the Police and Forest Departments of this Presidency upwards of 18 years.

55. Mr. S. Hornidge was promoted from Sub-Assistant Conservator of Forests to Assistant Conservator of Forests, 3rd Grade, on the 17th June 1884.

56. Mr. G. P. Millett, a trained Forest Officer, arrived in this country from England on 24th November 1884, and was posted for a short time to the South Thána Forest Division and was then transferred to West Khándesh as Assistant to the Divisional Forest Officer.

57. Messrs. R. H. Mádan, L.C.E., W. G. Clabby, G. F. Blackwell, and Lakshman Balál Oka, held acting appointments of Sub-Assistant Conservators in the vacancies caused by the absence of Senior Forest Officers and were in charge of sub-divisions throughout the year.

58. The Subordinate Protective Establishments, permanent and temporary, were entertained at the scale given in the following table:—

No.	Forest Divisions.	Number of Ranges.	Range Forest Officers.							Forest Guards.							Remarks.
			Rangers.				Foresters.										
			Rs. 100	Rs. 80	Rs. 60	Rs. 50	Rs. 40	Rs. 30	Rs. 20	Rs. 15	Rs. 12	Rs. 10	Rs. 9	Rs. 8	Rs. 7	Rs. 6	
1	North Thána	6								6	14	25	25	71	119	..	The pay of the Rangers and Foresters is personal and the men were transferred from range to range, therefore the number of appointments is shown in lump.
2	South Thána	8								8	14	25	23	72	148	..	
3	West Khándesh	12								8	18	24	24	70	149	..	
4	East Khándesh	10								9	16	20	22	62	126	..	
5	Násik	13								8	16	23	22	44	144	22	
6	Ahmednagar	11	3	2	5	10	13	22	49	6	12	22	18	54	112	..	
7	Poona	12								9	17	26	25	75	150	..	
8	Sátára	13								10	20	30	24	72	148	..	
9	Sholápur	7								3	6	11	8	16	96	..	
10	Surat	6								2	4	4	6	18	43	..	
11	Panch Mahás	5								2	5	10	10	30	60	..	
	Total ..	103	3	2	5	10	13	22	49	71	142	220	207	584	1,295	22	

59. The reorganization proposals of the subordinate protective establishments which had been submitted by the Conservator in the month of April 1883 which provided for the temporary Forest guards employed upon the conservancy of the forests to be absorbed into the permanent scale, were approved of by Government in their Resolution No. 8329, dated 22nd October 1884, and were forwarded together with the proposals for the other two Forest Circles of the Presidency to the Government of India, with the recommendation that sanction should be given to them. The Government of India, however, sanctioned an additional expenditure of Rs. 99,996 per annum only or Rs. 49,884 less than the amount for which sanction had been requested for the three Forest Circles, and consequently the Conservators were directed by Government to reconsider their proposed establishments with a view to reduction as suggested by the Government of India and to submit in consultation revised proposals for sanction. These were still pending at the close of the year.

60. Office establishments were employed upon an increased strength owing to the introduction of the new system of accounts under sanction conveyed in Government Resolution No. 2330, dated 18th March 1884, Revenue Department, as under :—

No.	Accounts Offices.	Number and Gradations.												Monthly Cost.
		Clerks.								Peons.				
		Rs. 100	Rs. 60	Rs. 50	Rs. 40	Rs. 30	Rs. 25	Rs. 20	Rs. 15	Rs. 10	Rs. 9	Rs. 8	Rs. 7	
														Rs.
1	Conservator	1	1	2	...	2	1	2	...	1	...	4	1	434
2	North Thána	...	...	1	1	1	...	1	1	...	1	3	...	188
3	South Thána	...	...	1	1	1	...	1	1	...	1	3	...	188
4	West Khándesh	...	...	1	...	1	...	2	1	...	1	3	...	168
5	East Khándesh	...	...	1	...	1	...	2	1	...	1	3	...	168
6	Násik	...	...	1	...	1	...	2	1	...	1	3	...	168
7	Ahmednagar	...	...	...	1	1	...	1	2	...	1	3	...	153
8	Poona	...	...	1	...	1	...	2	1	...	1	3	...	168
9	Sátára	...	...	1	...	1	...	2	1	...	1	3	...	168
10	Sholápur	...	...	...	1	1	...	1	1	...	1	3	...	138
11	Surat	...	...	1	...	1	...	2	1	...	1	3	...	168
12	Panch Mahals	...	...	...	1	1	...	1	1	...	1	3	...	138
13	Sub-Assistant Conservators ...	...	...	...	...	...	...	...	7	...	...	14	...	217
	Total ...	1	1	10	5	13	1	19	19	1	11	51	1	2,464

61. The cost of the Forest establishments, superior and subordinate, the permanent being charged to B. I. and II., and the temporary to A. VIII. *f*, amounted to the following sums :—

B. I. (*a*).—Conservator's salary	Rs.	19,391	7 6
B. II. (*a*).—Conservator's travelling allowance ...	„	2,536	3 8
B. I. (*b*).—Superior Officers' salaries	„	94,829	7 4
B. II. (*b*).—Superior Officers' travelling allowance,	„	25,863	10 6
B. I. (*c*).—Subordinate Protective Establishments' salaries	„	57,658	3 4
B. II. (*c*).— Do. travelling allowance ...	„	12,577	11 7
B. I. (*d*).—Office Establishment's salaries ...	„	38,933	10 3
B. II. (*d*).— Do. travelling allowance.	„	12,407	4 7
A. VIII. (*f*).—Cost of Temporary Establishments	„	1,72,751	4 1

(2). GENERAL PROTECTION AND BREACHES OF FOREST LAWS.

62. The number and result of prosecution for Forest offences in the year under report and the previous year respectively are as follows :—

No.	Divisions.	1883-84.		1884-85.		Percentages of Failures.	
		Total Number of Cases.	Prosecutions failed.	Total Number of Cases.	Prosecutions failed.	1883-84.	1884-85.
1	North Thána	38	18	22	14	47·3	63·6
2	South Thána	175	34	83	29	19·4	34·9
3	West Khándesh	15	3	32	10	20·0	31·2
4	East Khándesh	24	6	49	15	25·0	30·6
5	Násik	113	11	86	18	9·7	20·9
6	Ahmednagar	127	51	84	22	40·1	26·1
7	Poona	291	73	303	56	25·0	18·4
8	Sátára	28	5	32	4	17·8	12·5
9	Sholápur	10	3	67	10	30·0	14·9
10	Surat	19	5	9	2	26·3	22·2
11	Panch Maháls	67	18	29	6	26·8	20·6
	Total ...	907	227	796	186	25·0	23·3

63. There were 63 cases pending at the opening of the year which belong to the previous year and are not included in the total number of cases for 1884-85, and in the same way on the 31st March 1885 there were 72 cases still undergoing disposal; these figures affect the percentages of failures shown above which consequently are not absolutely correct. The cases, the trials of which were not completed at the close of the year, were distributed thus:—

North Thána ...	... 7	South Thána ...	... 2
West Khándesh ...	... 2	East Khándesh ...	... 5
Násik... ...	... 5	Ahmednagar ...	... 20
Poona ...	... 12	Sátára ...	... 2
Sholápur ...	... 17		

64. Forest offences are required to be classified under four different heads of crime by the Forest Department Code, and the following table exhibits this classification for the several Forest Divisions for the year under report:—

No.	Forest Divisions.	Character of Offences.				Remarks.
		Injury to Forest by Fire.	Uuauthorised Felling or Appropriation of Wood or other minor Produce.	Grazing in closed Forests.	Other Offences.	
1	North Thána	...	22	...	...	
2	South Thána	4	73	1	5	
3	West Khándesh... ...	4	21	3	4	
4	East Khándesh	4	30	11	4	
5	Násik	5	74	1	6	
6	Ahmednagar	1	37	31	15	
7	Poona	3	235	28	37	
8	Sátára	...	26	1	5	
9	Sholápur...	...	11	29	27	
10	Surat	2	5	2	...	
11	Panch Maháls	...	19	...	10	
	Total ...	23	553	107	113	

65. In the Thána Collectorate protection against fraudulent destruction of trees was very indifferent. In almost every range there have been heavy cuttings which are owing to causes in a very great measure beyond the control of the Forest Protective Establishments—

(*a*). In the first place the ruling of the High Court in respect of cuttings of trees which had been made ostensibly for ráb has tied the hands of the Establishments; this ruling provides that convictions for theft under the Indian Penal Code are not sustainable, that Section 25 of the Forest Act can only apply to forests the settlement of which has been completed, and in the case of protected areas, the greater portion of the gazetted forests in the unsettled tálukas has been notified as Protected Forests, conviction would only be possible if the trees have been reserved, which they have not been, by a notification published under Section 29 in the *Government Gazette*. In October 1884 after conference with the Conservator and the Revenue and Forest Officers of the Thána Collectorate the Commissioner ordered that all trivial forest offences were to be reported to the Assistant Collectors in order to be disposed of by them as offences under Section 43 of the Land Revenue Code. This plan has not been very successful. Sixteen cases concerning 111 people were sent up from the North Thána Division and only two of them were disposed of by the Assistant Collectors during the year. Forty-two cases were sent up from South Thána Forest Division, of which 5 were disposed of, the offenders being fined Rs. 14-1-3.

(*b*). Secondly, the system of Kolpat, *i.e.* the exploitation of "*dead-wood*," which is removed for firewood under permits by villagers and others for local consumption and also for export, as well as by the "*wild tribes*" in head-loads without permits, nominally for sale in villages, has been a fruitful source of cuttings; the real dead-wood lying in the forests was very soon cleared out and then the manufacture of dead-wood commenced; every man who goes into the forest carries with him an axe or the Marátha Koita hung in a string round his waist, one slash of which places a healthy growing sapling into the first stage of dead-wood, unless caught in the act, and the evidence of the detecting Forest Guard is corroborated by an unprejudiced witness; the dead-wood manufacturer has every prospect of escape. Timber dealers established depôts at every Railway Station and Bandar in the Collectorate, and not only induced the local inhabitants to bring dead-wood from the forests to their depôts which was at once sent off to the Bombay Market by rail and water, but they imported gangs of wild tribes to assist in the work of forest depletion.

(*c*). Thirdly, the ruling that it is illegal to demand passes under the rules published under Section 41 of the Forest Act in respect of timber from occupied lands, has increased the difficulties of forest protection, for as soon as a stolen log of teak, &c., is loaded in a cart or is upon a man's head it is claimed by the possessor as the produce of occupied lands, and it is extremely difficult to disprove this claim and to show that the timber has come from the State forests as the occupied lands intermingle with the latter in every direction, and in many parts this system of plundering has been perfected into a science; when the occupant of a survey number first fells the timber on it he leaves high stumps, and in successive seasons a few inches are cut off; the tops of these stumps give them the appearance of freshly cut stools, and thus proof to satisfy a Village Panch of recent fellings having been made upon the occupied land to account for the timber found in possession is produced.

(*d*). The way that ráb cuttings are conducted by villagers is calculated to destroy forests and to eradicate the sources of tree ráb-supply, growing saplings save of teak upon whole hill-sides and wide stretching forest areas are felled breast high, and the larger wood is then carried off to villages for consumption, or to Bandars and Railway Stations for sale

to timber dealers who export it to the Bombay market, and the leaves are taken to the rice fields to form ráb.

66. In connection with the Khándesh Collectorate the Divisional Forest Officer, Mr. Gibson, reports—

> The exercise of privileges given to Bhils and others by Government Resolutions Nos. 7030 and 3573 of 21st September 1883 and 3rd May 1884 was greatly abused. Large thefts of teak timber were reported in Akráni taken as dead-wood, after the trees had been girdled standing, to the bázárs of Sháháda, Borad and Taloda. Theft of this kind went on to a less extent in the Shirpur and Pimpalner Reserves. The cutting of unreserved wood was carried on to a great extent, so much so, as to threaten in some localities a complete clearance of unreserved trees from the Reserves in parts such as the Sháháda Sátpudás. In Pimpalner and Nizámpur thorn-cutting was carried on to a great extent. The exercise of this privilege I consider most destructive to the forests in which it is carried on, especially in Khándesh, where so many thorny bushes and trees grow, where the use of thorny bushes as nurses to better tree-growth is so great and important, and where the forests are only recovering slowly from the unregulated and indiscriminate cutting and grazing which used to go on.

67. In the forest divisions in the Deccan, save Khándesh, where privileges of the axe are not permitted to be exercised in the forests, protection has been very fair and reflects credit upon the forest subordinates. Trivial offences are not taken into Court, but the people committing them are warned; there were 674 of such cases in the Ahmednagar Division where there were also 294 cases of undetected crime which destroyed timber and other forest produce to the estimated value of Rs. 337-4-3; against this sum however Rs. 105-11-10 may be set off by sale of recovered property.

68. Of the two forest divisions in Gujarát the protection of the forests in the Panch Maháls was good, but in Surat one serious case of robbery by a contractor was brought to the notice of the Collector of the district by means of an anonymous petition, and the Collector deputed his subordinate Revenue Officer, the Mámlatdár of Párdi, to inquire into the matter. A forest subordinate was implicated in the robbery. The inquiries were still pending at the close of the year.

69. Some forest subordinates were detected in committing dishonest actions and were prosecuted:—

(1). A Nákedár of Mánikpur in North Thána was prosecuted for criminal breach of trust in respect of fees collected on 5 carts of dead-wood, but the evidence produced was not sufficient to obtain a conviction: his further services however were dispensed with.

(2). Bálkrishna Vináyak, Round Guard, employed in the Bassein Range of North Thána, was convicted of criminal breach of trust in respect of a sum of Rs. 7 and was sentenced to rigorous imprisonment for two months and to pay a fine of Rs. 50.

(3). Nathu Balwant, Kárkun of the Range Forest Officer, Bassein, was convicted of absconding with Government money amounting to Rs. 300 and was sentenced to two years' rigorous imprisonment and to pay a fine of Rs. 400, failing which he is to undergo further imprisonment for six months.

(4). A Nákedár, Raghunáth Vithal Joshi, employed in the West Khándesh Forest Division, was found guilty of misappropriation of money and was sentenced to one month's rigorous imprisonment.

70. A comparative statement showing the number of cases compromised under Section 67 of the Forest Act is given below as directed in Government Resolution No. 3527 of the 2nd May 1884, in the Revenue Department:—

No.	Divisions.	Taken into Court.		Compromised under Section 67.		Total Number of Cases.	
		1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
1	North Thána	38	22	11	13	49	35
2	South Thána	175	83	33	31	208	114
3	West Khándesh	15	32	40	300	55	332
4	East Khándesh	24	49	61	126	85	175
5	Násik	113	86	79	195	192	281
6	Ahmednágar	127	84	268	1,132	395	1,216
7	Poona	291	303	61	133	352	436
8	Sátára	28	32	...	49	28	81
9	Sholápur	10	67	193	317	203	384
10	Surat	19	9	...	3	19	12
11	Panch Mahála	67	29	4	11	71	40
	Total ...	907	796	750	2,310	1,657	3,106

71. Some Divisional Forest Officers have exercised their powers under Section 67 of the Forest Act with great freedom and judgment. In West Khándesh compensation to the amount of Rs. 528-9-3 was taken in connection with the 300 cases. In the Ahmednagar Division the number of cases compounded is very large owing to the personal activity of the Divisional Forest Officer and his desire not to press trivial cases, very many of which were for grazing in closed forests. Rs. 941-15-3 were recovered from the parties concerned on account of damages including sale value of the material. In the Sholápur Division the cases related chiefly to the grazing of cattle in plantations, &c., and Rs. 361-10-3 were recovered from the parties as compensation for damage which is as a rule determined by a Panch or Committee of the villagers.

(3). FOREST FIRES.

72. No regular expenditure is incurred upon fire conservancy in the employment of special establishments entertained to protect against fire, but traces are burned by the forest subordinates sometimes with the assistance of hired labour; and the co-operation of villagers in guarding against the occurrence of fire and in extinguishing fires when they are perceived is induced; rewards are given and payments made for their labours.

73. Form No. 51 attached to this report exhibits the forest areas of the several divisions in respect of which special attempts to guard against fire have been made, the proportion which was traversed by fire and the proportion reported to have been untouched by fire up to the end of the working season of 1885, *i.e.*, up to June of this year, as para. 257 of the Forest Department Code directs that the results are not to be given for the financial year but for the working season.

74. In the Thána Forest Divisions fires have been very prevalent for they are very useful agents in the manufacture of dead-wood. Once more this is shown by the fact that the forests which are remote from Bandars and Railway Stations and thus are removed from the machinations of timber dealers, for example in the Mokháda Range, a rough and difficult country abutting on the Syhádris about equi-distant from the Great Indian Peninsula Railway line on the one side and the Bombay, Baroda and Central India line on the other, have enjoyed immunity from fire. On the other hand the extensive forests surrounding that remarkable hill close to the Wásind, Asangaon and other stations on the Great Indian Peninsula Railway, were fired no less than five times, each time high up on the hill sides, although felled timber belonging to private parties was stacked in several places and their owners were interested in guarding against fire and gave active assistance in the work. There is absolutely no foundation for the supposition that fires have been the work of malicious incendiaries in revenge for the strict enforcement of forest rules, for as a matter of fact villagers and wild tribes are allowed into the forests to graze cattle free of any charge, to collect head-loads

of firewood, to remove dead-wood in carts, and to appropriate nearly every article of minor produce save Hirda and the leaves of Apta and Tembhurni trees. That very few fires have been accidental is equally true. Forests have been fired while the Conservator with the Divisional Forest Officer has been in them on inspection duty high up on mountain slopes. Forest fires are purposely made to facilitate the finding of dead-wood by removing under-growth, to hasten the death and fall of living trees and to give the appearance of dead-wood to timber freshly cut. When forest settlements have been completed in the Thána Collectorate and working plans of the forests have been drawn up and a better system of protection of defined areas can be introduced, it may be possible to check the evil which at present is playing serious havoc with these very valuable forests, the preservation of which is essentially important for several other potential reasons than for the production of timber.

75. In the West Khándesh Division fire protection was successful in some of the central ranges, for example in Dhulia, Nándgaon, Málegaon, and fairly so in Virdel, Nizámpur and Pimpalner, but the forests in other ranges were swept by fire, though traces were burned and other preventive measures adopted. People are allowed to roam the open forests, to collect the mowra flower and other produce, to collect dead-wood and cut unreserved live wood and bamboos without restriction; it is in the interests of all these people to clear off the long grass which conceals the objects of their search and harbours wild beasts, and consequently they set fire to the forests. In Virdel a fire burned much of the closed and planted area, and though a grazier was strongly suspected of having fired the forest no absolute proof could be obtained.

76. In East Khándesh Bhils and wild tribes, who enjoy privileges in respect of the forests, assisted in burning fire traces and co-operated in extinguishing fires, but at the same time extensive areas were traversed by fire. A Bhil Forest Guard was responsible for one fire ; having been reprimanded for the indifferent protection of his forests he flung down his belt, set fire to the forests in the Sátpudas, and then fled over the border into Holkar's territory.

77. In the Ahmednagar Forest Division fire protection was very successful. Out of a forest area of 785 square miles and 228 acres only 3 square miles and 281 acres were traversed by fires. No fire lines were burned because more damage would be done in their burning than otherwise, and the villagers gave prompt and cheerful assistance in extinguishing fires, and the forest subordinates are vigilant and careful as will be appreciated from the fact that while 57 fires occurred in 61 villages only 2,201 acres were burnt. The damages done by these fires were assessed at Rs. 76-15-6. In 13 of the above cases the incendiary was discovered, but only two cases were taken into Court, one of which was pending at the close of the year, 7 were compounded, 4 were warned, as the fires were trifling and the delinquents assisted promptly in extinguishing them which they had accidentally caused.

78. Only 2,000 acres in the immediate vicinity of the city of Poona were protected by fire lines, but fire conservancy was not so successful in the Poona forest division as in Ahmednagar, for 6,522 acres or 10 square miles and 122 acres out of 599 square miles 305 acres were burned, but the villagers are willing and quick in helping to put out fires. Rs. 11-13-0 were expended in payment of labour for so doing.

79. In six ranges of the Sátára Forest Division there were no forest fires, in the Mahábaleshvar range about one square mile was burned, and altogether in the whole division 5 square miles 399 acres were traversed by fire; the greater proportion occurred in the Pátan Táluka. This result may be considered satisfactory.

80. A steady improvement in fire conservancy has shown itself in the Sholápur Forest Division as will be seen from the following table. Only 6 fires occurred during the year and they were so smartly put out that but 63 acres of forest land were burned :—

Year.	Number of Fires.	Area burnt.	
		Square Miles.	Acres.
1880-81	57	9	385
1881-82	53	16	352
1882-83	47	2	200
1883-84	27	2	70
1884-85	6	...	63

81. Forest fires are very bad in the Surat Division owing to the tall growth of reeds and grass, to the fact that they harbour wild animals, and to the prevalence of mowra trees; nearly 42 square miles were burned in the Mándvi range, and the Dángs were practically searched all over by fire. A well known man-eating tigress was roving about the lower Dángs and there were one or two panthers on the move which were charged with predilection for human flesh; in such circumstances it is not surprising that undergrowth should be fired by the wild tribes, more especially where no forest reservations have been demarcated.

(4). GRAZING AND FENCING.

82. In the Konkan Forest Divisions where the rainfall is heavy and the growth of grass vigorous very little restriction is placed upon the grazing of cattle in the forests; they are only kept out of such tracts as have been subjected to improvement fellings recently where new shoots are growing from the old teak stools and are subject to injury by cattle rubbing against them; they are likewise prevented from roaming over blanks which may be under treatment for natural or artificial reboisement. In all other portions of the forests, in fully over 95 per cent. of the total area in the Thána division, the cattle of forest villagers are allowed to graze free of charge and fees are taken in respect of other cattle, but as a matter of fact no large number of cattle is sent into the forests from outside villages, and if any do come, they contrive to pass in generally without payment. A small revenue is made by the auction sale of the grass from what were formerly "Kurans" and from forest plantations, for cutting and removal; this grass is taken to Bombay for the supply of that city where there is great demand for forage for horses and horned cattle; the revenue thus realized is increasing in amount annually. During the year under report the receipts amounted to the following:—

	Rs. a. p.
North Thána	7,932 12 3
South Thána	1,970 4 6

83. In the Deccan Forest Divisions conservancy has had a marked effect upon the improvement in quality of grass and has largely increased its production. To promote the growth of good grass in abundance it is necessary to secure moisture in the soil, and this is effected by restoring superior vegetation to the reserved areas, for if the rain-water runs off the mountain and hill sides as fast as it falls upon them carrying away with it soil and other matter, it is hopeless to expect a good crop of grass to appear. It is likewise necessary to allow grasses to seed and to reproduce by the spreading of roots and the growth of shoots from them. If cattle are permitted into the open forests in overwhelming numbers, and if they are let in when the new grass has commenced to grow, it is obvious that very little if any improvement can be looked for, the grass will be eaten down as fast as it comes up, and its roots will be plucked up from the ground while the soil saturated with rain-water has no very binding hold upon them; further, hoofs of many cattle trample out of existence the grass upon sodden earth which escapes their mouths.

84. The grass and grazing revenue of the forests of the Northern Circle during the last ten years has shown a steady increase as will be seen from the following figures:—

1875-76...	... 50,761
1876-77...	... 55,752
1877-78...	... 58,186
1878-79...	... 42,629
1879-80...	... 64,613
1880-81...	... 100,443
1881-82...	... 141,765
1882-83...	... 164,444
1883-84...	... 197,963
1884-85...	... 225,853

85. In the Khándesh Forest Divisions the proportion of reserved and protected forests closed against grazing was very small and the number of cattle including sheep admitted into the open forests was very large indeed. Mr. Ommanney, C.S., the Forest Demarcation and Settlement Officer, in a report on the forest areas of two tálukás remarked very forcibly upon the damage done to vegetation of all kinds in them by over-grazing in the following words. "On all sides the grass is eaten down to the very stones and what soil there is is pounded into dust. No young growth is permitted to make head, and even the better kinds of grasses cannot compete with the Kusal or spear grasses, for the latter are the only species allowed to seed." This state of things points to the necessity of restricting the number of cattle, and to the observance of a grazing season which will permit of the growth of grass and of its seeding.

86. In Násik the receipts from grass in certain forests were fully 50 per cent. in advance of the sums realized in the preceding year, and the total collections amounted to Rs. 16,091-4-9.

87. In the Ahmednagar, Poona, Sátára and Sholápur Forest Divisions the closed areas, plantations, natural and artificial excepted, were thrown open to cattle during the monsoon as the rains held off for some time and there was scarcity of grazing and of cattle fodder outside of the forest reservations. In the Ahmednagar division 17,500 acres were open to free grazing; 241,116 large cattle and 55,668 sheep were admitted into the open forests on payment, and Rs. 17,345-5-6 were thus obtained. Subsequently of the closed forests about 28,000 acres were opened to big cattle and 48,000 acres to sheep and goats on payment of fees, which produced Rs. 7,396. The total revenue of the year amounted to Rs. 26,702-8-7. Fencing operations were undertaken in six ranges; 61,428 running feet of quick fencing were planted at a cost of Rs. 286-12-6.

88. The grass in the Reserved Forests of the Poona Division was disposed of:—

(a) by public auction on condition of being cut and removed after the 15th September;

(b) by public auction on condition of grazing after the 15th September except on the ghâts;

(*c*) on the fee system;

and Rs. 45,456-3-3 were realized, but when the order to open closed forest was issued refunds to the extent of Rs. 1,689-10-0 had to be made to the purchasers of grass and some revenue had to be sacrificed. Grass of the value of Rs. 3,555 was supplied to the Commissariat Department for the use of the Allegaon Cattle Farm for which administrative credit is only given; the item does not appear in the Forest Accounts. Cactus fences have been established round several of the reserves on the plains at a cost of Rs. 43, the greater portion of the work having been done by Forest Guards.

89. The fee system of grazing has been introduced this year in the *Sátára Forest Division*, auction sales having only been adhered to in the case of valuable Kurans. The grass and grazing revenue has amounted to Rs. 31,255-10-3, which is about Rs. 1,000 in excess of the preceding year. About 20 miles of live fencing has been put down.

90. The grass and grazing receipts of the Sholápur Forest Division have likewise increased to Rs. 22,521-3-7, but owing to the temporary suspension of the rainfall in June, July and August nearly all the forests were opened to cattle.

91. In the Gujarát Forest Divisions the right of grazing and of cutting and removing grass was sold by public auction with the following results :—

	Rs.	a.	p.
Surat Division	1,403	0	0
Panch Mahals	8,469	2	9

92. The following table shows the number of cattle impounded in the several forest divisions during the year for trespassing into closed forests and plantations. Very many trespassing cattle were simply turned out, their owners being warned that a recurrence of the offence would lead to impounding :—

No.	Forest Divisions.	Cows and Bullocks.	Buffaloes.	Camels.	Horses.	Asses.	Sheep.	Goats.	Total.
1	North Thána	...	...	...	...	...	...	...	...
2	South Thána	177	23	...	...	...	...	...	200
3	West Khándesh	1,943		8	...	...	3,944	4,314	10,209
4	East Khándesh	3,127		...	...	...	187	704	4,018
5	Násik	3,915		...	...	...	4,206		8,121
6	Ahmednagar	23,499	2,394	...	611	164	25,444		52,112
7	Poona	9,538		...	...	...	12,814	7,556	29,908
8	Sátára	4,780	268	...	32	13	1,068	2,284	8,445
9	Sholápur	8,826	1,707	...	132	206	1,006	1,831	13,708
10	Surat	144		...	...	...	188	50	382
11	Panch Mahals	197	63	16	...	...	580	...	856
	Total ...	60,601		24	775	383	66,176		127,959

(5). NATURAL REPRODUCTION.

93. The heavy rainfall of the Konkan makes natural reproduction in the Thána Divisions fairly easy, but forest fires and unlimited licence to go into the forests and appropriate produce materially handicaps the recuperative efforts of nature. The teak tree largely predominates here and possesses a wonderful power of reproducing by shoots, but this second growth is liable to be injured and destroyed while young by fires and cattle.

94. In the Deccan noticeable improvement has taken place in the closed forests; thousands of seedlings of teak and very many varieties of timber trees have appeared upon the hill sides, while bábul, bor, hingan, nim and saundar especially predominate in the forests on the plains. The satisfactory progress of natural reproduction is more rapid near the ghats where the rainfall is heavy and the atmosphere more humid than in eastern districts with their drier climate and high winds.

95. In the Gujarát Forest Divisions the rainfall is heavier than in the Deccan, but less heavy than in the Konkan, and protection is only required to ensure the reclothing by nature of tracts which may have been recently denuded of timber.

(6). ARTIFICIAL REPRODUCTION.

96. The rainfall of the year has not been as plentiful as in preceding years nor so seasonable, and in consequence artificial reproduction has not made such a successful appearance as might have been the case had the rains been more continuous, and humidity in the atmosphere more constant. In the forest divisions of Thána in the Konkan large collections of seeds of all kinds which had been made by Forest Guards were sown broadcast over blanks inside the Reserved

Forests, and in addition thereto many seedlings were raised and planted out in eight Plantations consisting of open places inside of Reserved Forest in three of the forest ranges of the North Thána Division, but no particulars of the operations have been furnished by the Divisional Forest Officer. The expenditure incurred upon this work has amounted to Rs. 224-8-7.

97. In the West Khándesh Forest Division the Anjan Hardwickiabinnata—a very valuable wood and a handsome graceful tree, the leaves of which are in great request for cattle fodder when there is a failure of grass,—having seeded, large collections of its seeds were made and were widely sown broadcast with very large quantities of other seeds in the forests by Forest Guards; 5,515 acres were specially treated, portions by ploughing and sowing, other parts by sowing in holes made with the pickaxe at a cost of Rs. 580-10-0. Nim seeds enclosed in balls of earth were thrown into thorny bushes, with very fair results, in the Raver Reserve near Dhulia. Over 300 healthy seedlings were counted in the bushes. In the plantations where seeds had been sown in furrows numerous seedlings were to be seen at the close of the hot weather, which though appearing dry and dead were found on examination to have roots green and full of life. In the Nándgaon and Málegaon tálukas of the Násik Collectorate which belong to this division 381 acres in the forests of Nándgaon, Vadner, Sowangaon and Aghar Budrukh were specially treated at a cost of Rs. 76-11-0.

98 In the East Khándesh Forest Division 2,518 acres within twenty Reserved Forests in ten ranges were planted over, the ground having been prepared by ploughing up the soil, and by digging pits; the expenditure incurred amounted to Rs. 344-10-4. The season is reported to have been an exceptionally hot and dry one, and no great results were apparent from the sowing and planting.

99. Very large collections of seeds were made in the *Násik Forest Division* by Forest Guards, and also by hired labour, which cost Rs. 208-15-0, including a sum of Rs. 108-0-6 for importing bábul seeds from Sind. Extensive broadcast sowings were made, and each Forest Guard prepared 5 acres of ground in his beat into which seeds were dibbled; several of these plantations were afterwards found to be in a flourishing condition. The Conservator noticed with pleasure the increase of superior vegetation on the sides of the hills in all directions, and the Collector has remarked that "there is no doubt forest conservancy is making marked progress." In the Yeola Range nearly 300 acres of bare ground were thoroughly ploughed over and sown with bábul, bor, anjan, &c. seeds, and the results were very satisfactory. In the Sátpur and Belgaum Dhaga Reserves of the Násik Range blanks were sown. In the Devpur Reserve of the Sinnar Range 86 acres were ploughed and sown. The Collector has recorded that "the success of the bábul plantation in Yeola is most satisfactory and the Collector hopes will stimulate the Forest Department to similar enterprise in the other adjoining tálukas of Niphád, and Chándor where the want of firewood near at hand is very much felt." An expenditure of Rs. 448-15-6 was incurred upon planting operations in Násik.

100. *Ahmednagar Forest Division.*—Artifical reproduction has been treated under four systems.

(1) Irrigated plantations.
(2) Ploughing completely and also in strips.
(3) Dibbling.
(4) Broadcasting.

101. The first system was applied only to the Dongargaon Reserved Forest in the Nagar Range, to which a second water channel has been added at a cost of Rs. 182-11-1. This plantation is doing very well indeed and contains a very promising growth of valuable trees, both indigenous and exotic. The following table exhibits the operations undertaken according to the other three systems; the work done by Forest Guards in some cases with a little extraneous help being marked with an asterisk:—

No.	Range.	Ploughing.		Dibbling.		Broadcasting.	
		Area.	Cost.	Area.	Cost.	Area.	Cost.
		A. g.	Rs. a. p.	A. g.	Rs. a. p.	A. g.	Rs. a. p.
1	Nagar	...	.....	*6 17	.....	.....	.....
2	Párner	47 0	104 10 9	82 0	51 12 9	.....	.....
				*19 0			
3	Shrigonda	61 1	39 10 6	21 1	.....	*2,151 18	12 0 0
		*21 4	.....	252 19	18 7 0	.....	.....
4	Karjat	33 0	55 12 0	*6 30	.....	*265 0	.....
5	Jámkhed	...	.....	195 0	71 11 6	*1,127 21	.....
6	Shevgaon	...	.....	42 0	29 0 0	60 0	1 2 0
				*101 0			
7	Nevása	60 16	133 0 0	24 38	37 11 0	107 0	0 3 7
				*8 0			
8	Ráhurí	7 20	76 8 0	120 0	75 10 0	*177 0	0 6 4
				*13 25			
9	Kopargaon	74 38	16 14 0	*7 0	.....	*658 33	8 5 6
10	Sangamner...	4 20	28 0 9	41 24	10 2 0	*8,570 24	41 4 0
				*27 37			
11	Akola	...	.....	34 0	19 6 9	*6,387 0	9 5 6
				*94 0			
	Total ...	309 19	454 8 0	1,096 31	313 13 0	19,504 16	81 12 0

102. One hundred and thirty-six khandis, twenty-one maunds and five pounds of seeds were collected by the Forest Guards and by hired labour; large quantities of teak, ain, and other kinds of seeds suitable for hill slopes were broadcasted upon the catchment area of Nagar city water-supply. The success or failure of these operations can only be determined by time, and cannot be judged in one season. The seeds were healthy, and although the rainfall was not as helpful as it might have been, still germination was fair where the seeds were put under ground as in the ploughing and dibbling systems, there can be no doubt of their germination, if not in the first at all events in the second season, and protection is what is now required to complete the work. The hot dry weather will cause casualties among seedlings. There is no room to question the satisfactory results of broadcast sowings which are made to supplement natural reproduction, for the hill slopes are showing more cover every year, and bushes are becoming trees. The seeds thrown over the sides of mountains and hills get protection by boulders and find shelter in crevices, and though the stems of many young plants die down for a few years, yet the roots retain vitality and thicken until at length they send up a shoot which survives the hot weather and the young tree becomes established. The total expenditure during the year in Ahmednagar amounted to Rs. 1,599.

103. *Poona Forest Division.*—Very large collections of seeds were made, brought to depôts and distributed over the division for broadcast and other sowings. Plantations on the flat have been sown after the ground had been prepared by ploughing and by digging pits, while mountain and hill sides were broadcasted; 5,407 acres were thus specially treated. The Reserves are improving steadily and contain very many seedlings. Bamboos have greatly increased in the forests of the western portion of the Khed Range and in the Mulshi Range near the Ghâts, the Bambusa arundo called "Chiwar" predominating. Expenditure upon planting works has amounted to Rs. 1,052-7-3.

104. *Sátára Forest Division.*—There is one irrigated plantation at Pádali in the Koregaon Range of 147 acres 31 gunthás which is watered from the Krishna Canal and has been planted upon with ain, teak, jámbhul, &c., and is in a very good condition. At Daré Khurd in the Sátára Range 36 acres have been planted with teak in pits, and fenced in with aloe, and is a successful work. 124 acres in eight Reserved Forests in the Mahábleshvar Range were pitted over and sown with Hirda (Terminalia chebula) and jámbhul and bamboos, which are growing well. In all the other Ranges small plantations have been made inside Reserved Forests and sown with mixed seeds in ground prepared for their reception, and hill-sides have been broadcasted in several directions. The expenditure during the year has amounted to Rs. 620-13-8. The Collector remarks "as a matter of fact it must be admitted that progress has been made in the natural reproduction of vegetable life. I see a great change for the better during the last two years in many places". The Collector's remarks on the artificial plan-

tations are not so favourable. He observes: "while cheerfully acknowledging that where the Department are merely assisting nature they are doing good service, I think it must be admitted that they have still to earn a name as successful tree breeders."

105. The following table shows the plantation works undertaken in the Sholápur Forest Division under the different systems and the expenditure incurred during the year:—

Number.	Range.	Full ploughed.	Half ploughed and drilled.	Pitted and dibbled.	Cost.
		A. g.	A. g.	A. g.	Rs. a. p.
1	Sholápur	5 0	441 20	240 0	193 1 9
2	Bársi	...	...	116 10	38 10 9
3	Mádha	...	209 0	47 0	55 0 6
4	Karmála	4 0	450 0	284 0	178 10 0
5	Sangola	...	Forests not settled.		.....
6	Pandharpur	...	403 0	102 0	102 8 3
7	Málsiras	...	222 0	167 0	71 1 3
	Total ...	9 0	1,725 20	956 10	639 0 6

106. In addition to the above 591½ acres have been pit-planted and dibbled by the Forest Guards themselves, and over 15,000 acres have been broadcasted with mixed seeds. The result of these extensive sowings was not very pronounced owing to the scanty rainfall, but a greater appearance will be made in the rainy season of 1885 for the seeds are in the ground and protection is afforded to the areas that have been sown; in several places the Divisional Forest Officer has dug up the seeds and found them to be perfectly sound and good. Expenditure during the year has amounted to Rs. 1,198-9-5.

107. *Surat Forest Division.*—Only 123 acres 13 gunthás have been specially treated for cultural operations, and of this area 59 acres have been planted by Forest Guards. The expenditure has been very small amounting to Rs. 30-9-6.

108. *Panch Mahál Forest Division.*—The only work undertaken was to dibble seeds into any extensive blanks in the Reserved Forests with a view to assist nature in reclothing these tracts with superior vegetation. 155 acres were thus operated upon principally by Forest Guards, and a small expenditure of Rs. 2-8-0 was incurred.

(7). CUTTING OF CREEPERS.

109. No expenditure was incurred upon this work which is carried out by Forest Guards in their own beats. The eradication of prickly-pear (Opuntia Dillenü) was commenced in the Burli Amnápur Reserved Forest in the Tásgaon Range.

(8). EXPERIMENTS WITH EXOTIC TREES.

CRYPTOSTEGIA GRANDIFLORA.

110. Seeds were supplied to several Divisional Forest Officers at the commencement of the rains of 1884. Of those sown in the North Thána Division about 200 plants resulted, but the larger number died; the few that are surviving are doing well. In Násik seeds were sown in the Divisional Forest Officer's garden and some in other private gardens, and their germination is reported to have been general, and many plants 8 inches high were thriving at the end of the year. In the Sátára Forest Division seeds were distributed among the Sátára, Tásgaon, Válva, Khandála, and Wái Ranges from whence favorable reports have been submitted of germination and of growth. This climbing shrub belongs to the Natural Order Asclepiadea. It is supposed to be a native of Africa or Madagascar, and is said to grow wild also in the Malabar and Coromandel coasts, and is to be found in our own Ghát Forests running over the highest trees, where it makes itself conspicuous by its large showy rose-colored

flowers which are well-shaped. The whole plant abounds in a milky caoutchouc juice like India rubber but hardly elastic. In Ahmednagar it grows like a weed all over the station and is to be found covering prickly-pear hedges in different parts of the Deccan, and it can hardly be classed as an exotic as it is naturalised. It is mentioned here because Government desired its experimental cultivation to be undertaken, but will not appear in future reports.

111. The following exotics which were planted during the last few years are all doing well.

PITHECOLOBIUM SAMAN.

112. The "rain tree" of Peru the wood of which has no value, but pods are said to be good fodder for cattle.

GREVILLEA ROBUSTA.

113. A beautiful tree indigenous to the sub-tropical part of East Australia where it attains a height of 150 feet, is of rapid growth resisting drought in a remarkable degree, the wood elastic, durable, and valuable for staves of casks.

SWIETENIA MAHOGANI OR THE MAHOGANY TREE.

114. Two in my garden at Poona are over 16 feet high and about 4 years old.

CÆSALPINIA CORIARIA LIBI DIBI.

115. A very slow grower where it is not irrigated; the pods are valuable.

DALBERGIA MELANOXYLON.

116. A native of Abysinnia, which is now known locally as "Chinese blackwood" may be seen all over Poona.

117. Four plants of Manihot-Glaziovii and 3 of Landœphia were planted in the Sophála Plantation of North Thána and are reported to be healthy.

118. Some seeds of the Pinus Australis received from the Government of India were distributed, but it is not yet time to report the result.

(9). COMMUNICATION AND BUILDINGS.

119. The expenditure during the year has been inconsiderable. Demarcation and extension of forests, and surveys are more important works at present, and demand a large outlay, and funds cannot be provided to any considerable extent for less emergently required operations, while this large expenditure on forest organization and creation is going on; as a matter of fact the Budget Estimates submitted by the Conservators are habitually reduced in order to provide a larger surplus than they themselves propose to exhibit. The Conservator, N. C., has been in communication with all the Collectors and Divisional Forest Officers regarding the construction of roads to open out forest tracts, and has several schemes to bring forward when money may be available, but until forests have been demarcated and settled it would be scarcely advisable to embark in costly undertakings for increasing the accessibility of our forests which are already in several directions sufficiently, if not too accessible, for the forests in the Northern Circle have to be improved and created; where there is a tract of valuable timber forest like in the Dángs, there roads have already been made by the Forest Department. But at the same time it should be remembered that one-half of the surplus revenue derived from the forests goes to Provincial Funds, and thus the Forest Department co-operates largely in local improvements.

120. The expenditure during the year has amounted to the following:—

	Rs.	a.	p.
Roads and bridges	1,066	6	6
Buildings	2,278	12	11
Other works	604	1	3

121. A road 8 miles long to tap the valuable teak coppice forests of Jaoleh-Baleshvar in the Sangamner Range of the Ahmednagar Division was sanctioned in Government Resolution No. 374 of the 4th February 1885. Its construction was directed personally by Mr. Fagan, but it was not completed

before the end of the year. The Dángs forest road in the Surat Division was repaired at a cost of Rs. 409-15-0, and the road leading up to the top of Tungar Hill in North Thána was likewise put into order.

122. *Buildings.*—Several offices for Range Forest Officers have been constructed by the Public Works Department within the premises of Mámlatdárs' Kacheris, and plans and proposals for continuing this work have been approved of and sanctioned. Necessary repairs have been made to the Forest Officers' houses at the head-quarters stations of Násik and Godhra and to the Lingmalá Bungalow near Mahábleshvar. The Mándvi-Dhadwada Nákás, the Lilápur Range Forest Officer's office, the Pimpri and Garvi forest rest-houses, all in the Surat Division, have been repaired In West Khándesh Forest Guards' huts have been built inside the Laling, Hingni, Anjanvihir and Deomogra Reserved Forests, and in the Ahmednagar Division Guards' huts have been built within the Sháhápur, Kokamthán and Pratápur Reserved Forests. It is very important that the Forest Guards should be housed within or near their forests inside their own beats, so that they may not be dependent upon villagers for accommodation. The Collector of Thána has remarked upon this subject as follows:—

"It seems to me to be absolutely necessary, for the sake both of the Forest Guards and of the villagers, that some arrangements should be made for housing the men. At present they must live in the Pátils' houses, and their presence is naturally a source of irritation; this would be removed if quarters were provided, and considering the unhealthy climate in which the Forest Guards have to work I think it but fair that they should be decently housed."

123. But looking to the large number of Forest Guards the construction of accommodation for all must be a work of successive years.

CHAPTER IV.

YIELD AND WORKING.

(1.) DEPARTMENTAL OPERATIONS.

North Tha'na Forest Division.

124. 72,752 trees yielding 87,032 pieces of timber and 14,179 khandis of firewood were felled and brought out of the forests by departmental agency. The produce of 6,400 of these trees was sold by auction in small lots with a view to afford facilities to local villagers of supplying their requirements, while the remainder of the timber, &c., was sold on tenders to timber dealers. The following is a statement of the operations; only mature and unsound trees were felled:—

Ranges.	No. of Trees felled.	Yield of Material.		Cost.	Receipts.	Profit.
		Logs.	Firewood.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Sálsette	62	75	...	35 12 0	167 0 0	131 4 0
Bassein	14,052	10,774	6,542	2,068 7 5	14,435 2 0	12,366 10 7
Wáda	10,000	13,946	4,580	2,643 0 0	19,032 10 11	16,389 10 11
Máhim	17,660	22,753	1,233	2,999 8 5	42,840 12 4	39,841 3 11
Dáhánu	20,109	25,984	1,301	3,977 5 7	38,674 9 11	34,697 4 4
Umbargáon	10,869	10,500	523	1,567 0 6	12,415 13 6	10,848 13 0
Total	72,752	84,032	14,179	13,291 1 11	1,27,566 0 8	1,14,274 14 9

125. In order to provide the fishermen of the coast with bark for tanning their nets fellings of ain trees (terminalia tomentosa) were undertaken in addi

tion to the above. The bark was stripped, packed and sold at Rs. 5 per khandi, and the timber and firewood was sold by auction:—

Ranges.	No. of Trees.	Yield.				Cost.	Receipts.	Profit.
		Timber.	Fire-wood, Khandis.	Bark.				
				Khs.	Mds.			
						Rs. a. p.	Rs. a. p.	Rs. a. p.
Bassein	3,000	3,851	...	196	13	1,000 0 0	2,848 1 11	1,848 1 11
Máhim	2,735	3,330	136	136	21	412 0 0	4,130 10 5	3,718 10 5
Dáhánu...	1,532	2,087	313	125	...	560 8 0	3,258 10 0	2,698 2 0
Total ...	7,267	9,268	449	458	6	1,972 8 0	10,237 6 4	8,264 14 4

31 "Agricultural Depôts" were established and maintained departmentally for sale of building wood and material for ploughs to *bonâ fide* cultivators at fixed rates, in addition to the supply made to the market. The following statement exhibits the sales at these depôts, and the cost incurred upon, and receipts derived by sale of, the wood. The cost of establishments employed to superintend the depôts is not included:—

Ranges.	Number of Depôts.	Timber Pieces, sold.	Cost of stacking the Depôts.	Sale Receipts.
			Rs. a. p.	Rs. a. p.
Sálsette	3	1,155	163 0 0	364 15 0
Bassein	7	3,024	331 12 10	1,473 7 1
Wáda	6	1,034	199 3 0	334 8 0
Máhim	8	3,391	347 7 6	2,096 5 6
Dáhánu	4	2,052	98 6 6	624 9 9
Umbargaon	3	1,628	86 14 9	520 7 3
Total ...	31	12,284	1,226 12 7	5,414 4 7

In paragraph 65 of the administration report of last year it was incorrectly stated that only Rs. 461 worth of timber had been sold in the North Thána Depôts, whereas the sales amounted to Rs. 4,252-4-0, and under departmental fellings 54,521 trees yielding 66,153 pieces of timber and 9,805 khandis of firewood were brought into the market.

South Thána Forest Division.

126. Forty thousand teak trees were felled departmentally at an average cost of Rs. 15 per 100, and sold by tender and auction at an average rate of Rs. 107 per 100 trees; only the unsound and mature were felled:—

Ranges.	Number of Trees.	Cost.	Receipts.
		Rs. a. p.	Rs. a. p.
Sháhápur	8,000	1,206 8 7	8,429 8 9
Bhiwndi	5,000	1,112 6 0	7,435 1 6
Murbád	5,000	699 9 0	5,393 14 7
Karjat	5,000	742 13 6	4,904 9 2
Kháláپur	4,000	427 7 0	3,663 13 1
Kinowli	4,000	572 7 0	5,238 5 9
Mokháda	1,000	130 10 6	1,245 12 0
Kalyán	8,000	1,270 0 0	6,535 2 7
Total ...	40,000	6,161 13 7	42,846 3 5

Compartments in the Kalyán forests were felled with a view to supply the cultivators with junglewood, firewood and leaves for ráb, but little or no ráb was taken, and the timber, &c., though sold, was not paid for or removed before the close of the year.

127. Moreover 25 agricultural depôts were stocked with timber, and the contents partly sold as under :—

Ranges.	Number of Depôts.	Timber Pieces stacked in Depôts.	Timber Pieces sold.	Timber Pieces remaining.
Kalyán	7	9,257	3,950	5,307
Kinowli	2	1,532	321	1,211
Khálápur	3	2,795	1,950	845
Mokháda	1	1,520	781	739
Karjat	4	3,633	2,383	1,250
Murbád	6	6,242	2,578	3,664
Bhiwndi	1	4,591	2,630	1,961
Sháhápur	1	5,339	1,142	4,197
Total ...	25	34,909	15,735	19,174

128. The expenditure upon stocking the depôts amounted to Rs. 1,260-2-7. The cost of establishments entertained for superintending the depôts amounted to Rs. 4,625-11-7, while the amount realised by the sales effected during the year came to Rs. 4,039-15-6.

West Khándesh Division.

129. The following quantities of timber were placed in the market :—

Ranges.	Timber Pieces. Teak.	Timber Pieces. Junglewood.	Firewood, Khandis.	Cost. Rs. a. p.	Receipts. Rs. a. p.	Remarks.
Akráni	5,000	...	...			
Taloda	10,444	273	...			
Navápur	5,746	...	...			
Nandurbár	5,062	55	...			* Includes the sale-proceeds of the stock in hand at the commencement of the year.
Shaháda	3,018	...	14	4,127 4 9	*17,454 3 9	
Shirpur	11,817	1,038	173			
Dhulia	...	...	112			
Pimpalner	...	...	50			
Málegaon	...	342	400			
Total ...	41,087	1,708	749	4,127 4 9	17,454 3 9	

130. The teak rafters felled in the Akráni Range were sold in temporary depôts on the spot, because labour could not be obtained to drag them to the banks of the Nerbudda River for floating to Broach, as was intended to be done.

131. The teak rafters felled in the Sháháne compartment of the Sháháda Range were conveyed to Sarang-Kheda, a distance of 20 miles, by contract entered into with villagers, and were there stacked in a depôt, and sold by auction.

132. The timber felled in the Mitgaon compartment of the Shirpur Range was stacked in a temporary depôt upon a good road, but could not be sold before the close of the year as no purchasers were forthcoming.

133. The Divisional Forest Officer reports that the Bhils in Shirpur, Sháháda and Taloda were most unwilling to come to felling works though a wage of 3 annas per man per diem was offered, and gives as a reason that there is

plenty of employment offering for these people on the fields, harvesting crops, &c., and they do not care to come into the forests to work, and are averse to steady labour.

East Kha'ndesh Forest Division.

134. The timber felled and stacked in temporary depôts during the year amounted to the following:—

Ranges.	Timber Pieces.		Firewood, Khandis.	Cost.	Receipts.
	Teak.	Jungle-wood.			
				Rs. a. p.	Rs. a. p.
Chopda	2,158	82	10	944 11 1	4,021 11 2
Sávda	2,160	...	...	602 4 10	1,397 8 0
Jámner	5,225	...	...	419 15 0	2,360 8 0
Bhusával	...	178	178	50 0 0	301 0 0
Jalgaon	...	1,006	95	34 7 0	124 4 0
Total ...	9,543	1,266	283	2,051 5 11	8,204 15 2

135. Fellings on the block system were carried on in the Chopda, Jámner and Bhusával ranges, Bhils being employed, who were paid at the rate of Rs. 3 per 100 rafters. The Wanjáras who are annually employed in bringing the felled timber out of the Sátpuda forests to the several depôts at the foot of the hills refused to undertake the work this year, and therefore the timber was stacked in temporary depôts in the forests, and sold by auction on the spot, and was removed by purchasers at their own expense. All the timber, &c., is used locally, and large importations are made from the forests belonging to His Highness the Holkar in the Sátpudas, which belonged formerly to Khándesh, and from the Nizám's forests on the eastern frontier of the Division.

Ahmednagar Forest Division.

136. The timber and firewood fellings of the year are summarised in the following statement:—

Ranges.	Number of Trees felled.	Timber Pieces.	Firewood.	Cost.	Receipts.	Remarks.
Teak Fellings.			Kh. Mds.	Rs. a. p.	Rs. a. p.	
Akola	14,238	*30,102	381 24	633 7 9	5,034 9 8	*3,289 pieces on hand sold after the close of year.
Sangamner	3,564	10,074	394 16	225 6 3	2,311 14 3	
Total ...	17,802	40,176	776 12	858 14 0	7,346 7 11	
Jámbul Fellings.						
Akola	600	2,226	121 9	106 3 6	188 13 9	†Sold after the close of the year.
Párner	679	3,309	†190 9	81 6 6	187 4 6	
Shrigonda	344	613	24 4	10 11 0	109 14 6	
Total ...	1,623	6,148	335 22	198 5 0	486 0 9	
Bábul and Firewood in the Reserves on Plains.						
	...	...	64 4	23 11 0	60 0 0	36 Khandis unsold.
Nagar	...	...	197 1	34 12 3	284 4 0	
Shrigondá	...	...	28 17	8 0 0	37 13 0	
Nevása	...	...	44 3	11 1 0	30 6 0	
Ráhuri	...	...	435 14	99 11 6	257 12 0	211 Khandis and 22 maunds on hand.
Kopargaon	...	...				
Total ...	...	...	769 11	177 3 9	670 3 0	

137. The teak fellings were made in strict accordance with Mr. Hight's working plan, and the jámbhul trees were cut on the banks of rivers after being marked by the Divisional Forest Officer for the axe. In the reserves on the plains all dead trees are cut out, and also trees marked by the Divisional Forest Officer with a view to thin out too dense growth; the cost of felling is about 3½ annas per khandi, and the price obtained about 14 annas the khandi.

138. One hundred bámbus were cut departmentally in the Shrigonda Range as an experiment at a cost of Rs. 3-4-0, and they sold for Rs. 11-0-0.

Na'sik Forest Division.

139. The following statement gives the quantities of timber and firewood felled departmentally during the year:—

Ranges	No. of Trees.	No. of Pieces.	Firwood, Khandis.	Cost.	Receipts.	Remarks.
				Rs. a. p.	Rs. a. p.	
Peint	54,496	97,535	...	2,803 10 0	26,062 15 10	
Dindori	15,244	25,352	517½	809 1 6	9,062 9 0	
Kalwan	6,149	22,142	5	584 6 9	4,456 10 0	
Báglan	1,209	5,708	...	122 12 0	929 10 0	
Násik	5,854	1,021	246	275 0 0	582 6 0	
Igatpuri	703	7,165	...	286 8 0	1,483 2 9	
Sinnar	813	1,106	20	50 5 4	370 2 0	
Niphád	80	...	462	116 2 3	502 8 0	
Total ...	84,548	1,60,029	1,250½	5,047 13 10	43,449 15 7	

140. The timber was all sold by public auction in the above-ghát forests in small lots so as to serve the convenience of cultivators and petty traders; the demand was good and sales were brisk. The teak is of small rafter size, and therefore the ruling prices may appear to be low.

Poona Forest Division,

141. Improvement fellings of teak, bábul and junglewood trees and also of bámbus were made in the forests of all ranges, and the material was brought out of the forests and sold by public auction to the highest bidder; only dead, fallen and unsound trees were removed.

142. The following statement gives the distribution of timber operations during the year:—

No.	Ranges.	Numer of Trees felled.			Yield.		Cost.	Receipts.	Remarks.
		Teak.	Jungle-wood.	Bámbus.	Timber Pieces.	Firewood.			
						Kh. mds. lbs.	Rs. a. p.	Rs. a. p.	
1	Khed	3,355	132	...	16,325	893 3 4	443 9 6	5,119 1 6	
2	Ambegaon	4,800	...	391	18,643	.....	364 6 0	6,422 1 0	
3	Haveli	2,250	350	...	14,555	668 25 0	658 1 0	7,721 1 0	
4	Mával	435	75	...	1,284	32 19 0	30 7 0	825 13 0	
5	Purandhar	1,800	...	...	9,706	.....	200 9 0	4,351 2 0	
6	Junnar	3,850	30	...	6,903	28 16 0	163 5 9	2,535 15 0	
7	Indápur	...	80	...	...	267 2 0	25 0 0	504 2 0	
8	Sirúr	...	881	...	...	684 25 0	99 14 7	1,837 3 0	
9	Bárámati	...	309	...	...	264 20 0	48 14 3	815 4 0	
10	Bhimthadi	...	1,307	...	...	632 9 0	149 15 0	2,014 12 0	
11	Mulshi	..	...	34,000	...	.....	105 0 0	273 9 0	
	Total ...	16,490	3,164	34,391	67,416	3,473 19 4	2,288 9 1	32,419 15 6	

143. All the timber was sold in small lots to serve the convenience of cultivators and petty traders. It is almost entirely consumed in the Division, the better pieces of timber being conveyed to the Poona city market, while almost all the firewood is taken there for the supply of the city and the civil and military residents.

Sa'ta'ra Forest Division.

144. Teak thinnings were made in the forests of the Pátan, Válva, Koregaon, Karád and Khandála Ranges and of junglewood trees in the Mahábleshvar,

Jávli, Pátan, Wái, Sátára and Karád Ranges, which produced both timber and firewood, and in the Jávli forests a few bámbus were felled. The following statement furnishes the details of these operations:—

Ranges.	No. of Trees.			Yield in			Cost.	Receipts.	Remarks.
	Teak.	Junglewood.	Bámbus.	Timber pieces.	Firewood.	Bámbus.			
							Rs. a. p.	Rs. a. p.	
Karád	3,400	...	..	13,184	241 24	...	347 2 6	4,371 13 0	
Khandála	649	...	...	2,042	20 0	...	51 8 6	517 1 0	
Koregaon	196	...	...	1,052	20 0	...	27 15 3	607 7 0	
Jávli	...	1,000	600	1,000	...	600	58 5 6	199 6 0	
Pátan	3,140	2,475	...	19,189	268 14	...	727 7 7	5,209 5 0	
Válva	2,238	...	...	10,681	273 14	...	226 13 9	1,846 14 6	
Mahábleshvar ...	..	1,275	...	1,275	...	...	72 10 6	162 1 0	
Total ...	9,623	4,750	600	48,423	823 24	600	1,511 15 7	12,913 15 6	

145. The timber was all sold in small lots and is consumed in the division by villagers for house-building and repairs. A few lots were purchased at the auctions by the Public Works and the Irrigation Departments who sent subordinates to attend the auction sales conducted by Forest Officers and to bid for such lots as they may require.

Sholápur Forest Division.

146. The timber operations here are necessarily upon a very limited scale as forests have to be created and cannot at present outturn much timber and firewood:—

Ranges.	Description of Tree.	Timber Pieces.	Firewood.	Cost.	Receipts.
			Kh. mds.	Rs. a. p.	Rs. a. p.
Pandharpur ..	Bábul	22	147 21	52 7 9	317 0 0
Karmála	Sandal wood ...	1	.....	.....	0 6 0
	Bábul	...	50 0	12 0 0	42 9 0
Mádha	Bábul	...	13 0	1 2 0	on hand.
Sholápur	Bábul chiefly ...	...	50 0	24 13 9	212 1 0
Total ...	.....	23	260 21	90 7 6	572 0 0

147. The results of the auction sales exhibit an increasing demand for timber and firewood.

Surat Forest Division.

148. In the Dángs, Mándvi and Bulsár Ranges teak was felled, stacked and sold by departmental agency to the following extent:—

Ranges.	Yield.			Cost.	Receipts.	Remarks.
	Number of Trees.	Number of Pieces.	Cubic Feet.			
				Rs. a. p.	Rs. a. p.	
Dáng	1,458	1,458	26,740	4,237 14 7	24,368 0 2	
Mándvi	27,199	28,964	.....	2,748 5 8	14,415 15 2	
Bulsár	2,100	2,400	.....	434 7 0	11 0 0	
			Tons. cwt. qrs.			
Do.	1,195	...	510 3 3	467 7 9	5,536 14 0	
Total ...	31,952	32,822	26,740	7,888 3 0	44,331 13 4	
			Tons. cwt. qrs. 510 3 3			

149. In addition to the foregoing the following quantities of timber were on hand at the opening of the year:—

Ranges.	Teak Pieces.	Cubic feet.	Bábul Firewood.
Dáng	1,350	26,486	.....
Mándvi	14,498	.....	.....
Bulsár	.....	.....	901 10

150. The bábul firewood was felled upon the railway strips and was supplied to the Bombay, Baroda and Central India Railway Company for consumption in the furnaces of their engines. At the close of the year the following quantities of timber and firewood were unsold in stock :—

Ranges.	Teak Pieces.	Cubic feet.	Firewood.
			Tons. cwt.qrs.
Dáng	1,458	26,740	.....
Mándvi	13,550	.....	.....
Bulsár.	2,353	.....	210 3 3

PANCH MAHA'LS.

151. The departmentally felled teak timber was partly conveyed to the Forest Depôt at Godhra where it was sold at auctions periodically held, and was partly stocked in temporary depôts where its disposal was effected by auction sales. The following statement gives the outturn of the year with the cost and amounts of sales :—

Ranges.	Yield.		Cost.	Receipts.	Remarks.
	No. of Pieces.	Firewood, Khandies.			
			Rs. a. p.	Rs. a. p.	
Godhra	45,993	10,152	6,398 14 9	28,697 15 8	
Kálol	1,552	20	475 6 10	2,739 12 0	
Dohad	...	2,301	322 2 5	1,026 1 0	
Hálol	150	2,000	746 7 10	1,773 0 0	
Total ...	47,695	14,473	7,942 15 10	34,236 12 8	

I.—(*e*) GRASS AND OTHER MINOR PRODUCE.

152. A departmental collection of hirda, the fruit of Terminalia chebula, was made as usual, and the following gives a comparison between the results of the year under report and the preceding year. The hirda crop was a very good one as locusts which did damage last year did not put in an appearance this year :—

Divisions.	Yield.		Cost.		Receipts.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	Kh. m. lbs.	Kh. m. lbs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Thána	.....	244 12 1	.....	1,216 3 1	.....	6,462 15 10
Násik	99 20 19	130 25 4	1,177 2 6	1,525 8 8	2,741 7 7	3,197 5 1
Ahmednagar	144 0 2	151 25 8	902 5 0	924 7 9	4,422 10 10	4,733 7 1
Poona	100 3 4	142 2 12	1,234 8 5	991 0 0	1,234 8 5	3,601 13 6
Sátára	42 24 0	849 22 12	176 10 7	6,271 9 8	572 5 2	19,194 8 0
Total ...	386 19 25	1,519 3 9	3,490 10 6	10,928 13 2	8,971 0 0	37,190 1 6

153. Forty-six khandis 7 maunds and 8 lbs. of shikakái, the pod Acacia Concinna, were collected departmentally in the forests of the Sátára Division against 25 khandis, 3 maunds and 12 lbs. collected during the previous year; the cost amounted to Rs. 565-12-3. No sales were effected before the close of the year.

154. The flowers of the mowra trees, Bassia latifolia, were collected departmentally in the Thána Collectorate and in the Mándvi Táluka of Surat Collectorate, as directed in Government Resolution No. 7580, dated 30th August 1883, but the results were not successful in the Thána Divisions; all the flowers were not sold before the 31st March 1885, but the financial results of the operation are given in the following statement. It was ordered that "the rates to be "paid should be fixed by the Divisional Forest Officer and the Collector after "consultation with the Commissioner of Customs, Salt, Opium and A'bkári, who "must also consider how and to whom the mowra flowers thus obtained are to "be disposed of." The rate as originally fixed by the Divisional Forest Officer was 3 pies per ser of 80 tolas, 4 annas per maund of 14 sers and Rs. 7 per khandi of 28 maunds. The Collector of Thána however influenced by information furnished by the Mámlatdárs and A'bkári Inspectors considered that the price thus fixed was too low and that little mowra would be brought for sale to the depôts if these prices were maintained, and therefore they were raised, but not to such a high figure as recommended by the Collector. The collections were commenced in the month of March 1884, and were completed in May of that year; very little of the collected mowra in the Thána Divisions was sold before the commencement of the rainy season of 1885, and it had to be carted to railway stations and stored there in houses hired for the purpose. One depôt at Khardi in the Sáhhápur Range containing 21 khandis 24 maunds and 10½ sers of mowra flowers was consumed by fire at the time when the village of Khardi was accidentally burnt down. The collected mowra in the Mándvi Táluka of Surat Division was all sold before the rains of 1884:—

Divisions.	Collected.		Loss by Dryage, Wastage, Fire, &c.	Sold.	
	Quantities.	Cost.		Quantities.	Receipts.
	Kh. m. s.	Rs. a. p.	Kh. m. s.	Kh. m. s.	Rs. a. p.
Thána	2,626 17 4½	39,279 1 6	122 5 0½	2,508 22 10½	12,785 15 8
Surat	38 6 0	777 0 4	3 26 0	34 8 0	960 0 0
Total ...	2,664 23 4½	40,056 1 10	126 3 0½	2,543 2 10½	13,745 15 8

155. The Commissioner of Customs, Salt, Opium and A'bkári had reported the wholesale price of mowra flowers at Uran and Bombay to be from Rs. 15 to Rs. 18 per khandi, but unfortunately a heavy import duty was imposed in France upon mowra flowers about the time that the collections were being made, and the export trade from Bombay which had been considerable was consequently suspended. This of course affected prejudicially the sales of the departmental mowra, and finally a price of about Rs. 5 a khandi had to be accepted. There was evidently a combination among the liquor distillers and contractors against the sales of the departmentally collected mowra flowers, and the disposal of the stock even at the very reduced price above stated was effected with great difficulty.

(2).—REMOVAL OF FOREST PRODUCE BY PURCHASERS.

North Thána Forest Division.

156. 7,629 logs of dead timber lying in the forests were removed by contractors on the share system, who were paid a certain portion, about 6 annas in the rupee of the sale realizations, which amounted to Rs. 8,435.

157. Dead firewood was removed from the forests on permit fees.

158. Large carts, of which 860 were taken, paid 2 rupees each.

159. Small carts, of which 18,882 were removed, paid Re. 1 each.

160. Boats were charged upon the Kowl Khandi at rates of 6 and 12 annas; 1,313 khandis were removed at the higher rate, and 1,530 at the lower.

161. Six thousand and fifty-five head-loads were taken out by men who paid 1 anna each.

162. Six thousand seven hundred and fifty-four head-loads by women who paid 9 pies each.

163. Five thousand two hundred and sixty head-loads by children who paid 6 pies each.

164. Sixteen thousand three hundred and fifty-five cubic feet of bábul firewood were sold to a purchaser, who was required to fell the trees and stack the material in the Shimpodi-Borewli Reserved Forests, when its contents were ascertained and price taken at Rs. 4 per 100 cubic feet.

165. Large quantities of bámbus were removed on permits for which Rs. 14,760 were paid.

23,915 Padhai ...	...	... Bámbus vulgaris.
205,305 Manvel ...	...	... B. Arundinacea.
165 large carts	...	... Of Bundhis.
5,219 small „	...	... B. Stricta.
4,771 head-loads	...	...
461 large carts	...	... Of Jhitas or loppings
2,754 small „	...	... of bámbus.
652 head-loads	...	...
1,133 large carts	...	... Of dry and dead bám-
496 small „	...	... bus.
229 Kowl Khandis	...	...

of Kárvi (Strobilanthes) the exploitations on permits were considerable amcunting to—

69 large carts.
755 small „
1,881 head-loads.

South Thána Forest Division.

166. The same rules *governed* the permit system as in North Thána. 60,760 teak pieces and 1,185 junglewood pieces were removed by purchasers, for which Rs. 27,760-11-0 were received.

167. Firewood and bámbus were likewise removed to a very large extent on permits, which produced Rs. 8,337 and Rs. 3,340 respectively.

168. Of Kárvi 690 carts and 1,822 head-loads were taken, and 19 carts and 89 head-loads of thorns for fencing purposes.

169. In the forest divisions of East and West Khándesh and Násik very large quantities of dead and dry teak timber, of junglewood of all kinds, of firewood, thorns, &c., were removed upon payment of fees by villagers; full details of these operations appear in Statement Form No. 63 attached. The timber removed from the Peint Forests and the Dáng Forests of the Násik Forest Division were purchased standing at the following rates:—

	Peint.			Kalvan Dángs.		
	Rs.	a.	p.	Rs.	a.	p.
Green Teak, per Khandi ...	12	8	0	9	0	0
Hed	3	0	0	0	0	0
Ain	0	0	0	3	9	0
Tiwas	7	8	0	0	0	0
Khair	7	8	0	0	0	0
Blackwood ...	4	8	0	0	0	0
Kinai	2	0	0	0	0	0

Ahmednagar, Poona, Sátára and Sholápur Forest Divisions.

170. [illegible] quantities of dead-wood and firewood were removed on payment of fees, which are all detailed in Statement No. 63. In the Sátára Forest Division the 22nd Regiment of Native Infantry were supplied with junglewood rafters and bámbus for building new lines; working parties were sent into the

Ghát Forests of the Mahábleshvar Range to fell and remove trees which were marked for the axe by forest subordinates, the operations were carried on under close supervision, and 11,888 junglewood rafters and 37,189 bámbus were thus exploited.

Surat Forest Division.

171. From the forests of the Mándvi Range firewood, timber and bámbus are removed on payment of fees, and from the Dángs timber and bámbus. The trees are selected by forest subordinates, and are marked for the axe and are then felled by the contractors, who bring the timber to the forest depôt at Waghai on the frontier of the Dángs, where it is measured, its cubical contents ascertained and the price taken; each log is then marked with a serial number, and is removed to its destination under cover of a pass issued under the rules published under Section 41 of the Forest Act. The price is determined by public competition; tenders for felling and removing certain specified quantities of different kinds of timber are invited before the season opens, and the highest approved tender is accepted. The timber, &c., thus removed from the Dángs and other ranges during the official year 1884-85 and the prices ruling are as under:—

Range.	Description of Timber.	Cubic Contents.	No. of Pieces.	Rate per Khandi.	Amount.	Remarks.
		Kh. ft. in.		Rs. a. p.	Rs. a. p.	
Dáng	Green teak	385 16 6	...	21 0 0	8,102 1 9	
	Do.	150 0 0	...	18 0 0	2,700 0 0	
	Dry teak	5 10 7	...	6 0 0	33 1 8	
	Sissum	136 7 5	...	11 12 0	1,575 0 0	
	Haladhwan	3 10 8	...	2 1 0	7 4 3	
	Beo	119 5 10	...	6 2 0	730 9 3	
	Tannach	42 1 12	...	13 0 0	549 8 11	
	Do.	50 0 0	...	10 0 0	500 0 0	
	Sádra...	317 1 19½	...	4 9 0	1,390 6 3	
	Do.	300 0 0	...	3 5 0	993 12 0	
	Kanty	113 16 7	...	2 8 0	284 8 8	
	Do.	52 0 0	...	3 1 0	159 4 0	
	Khair...	67 8 1	...	15 0 0	1,012 5 0	
	Do.	50 0 0	...	12 4 0	612 8 0	
	Teak knees	.....	Scores 150	Rs. 5 per score.	750 0 0	
	Miscellaneous timber, axles, &c.	... ..	716	.....	1,431 0 0	
	Do. do. ...	.....	} 13,218	.....	418 10 6	
	Firewood	.....		.....	225 0 0	
Mándvi	Teak logs	.....	Carts 96	Rs. 3 per cart.	288 0 0	
	Do.	.....	19	1 0 0	19 0 0	
	Teak pieces	.....	78	2 0 0	156 0 0	
	Dry-Kagar	.....	2	4 0 0	8 0 0	
	Miscellaneous timber, axles, &c.	.....	0¾	... ..	1 8 0	
	Cart poles	.....	14	.....	29 0 0	
	Firewood	.....	4790	.....	2,658 9 0	
	Firewood pieces ...	.....	29	.....	34 10 6	
Bulsár	Firewood	.....	Carts 430	.....	532 0 0	
					25,201 11 9	

Panch Mahals Forest Division.

172. The following tabular statement shows the quantity of timber and firewood removed by purchasers from the forests of the Panch Mahals during the year:—

Ranges.	Description of Timber.	Cubic Feet or Number of Pieces or Khandis of Firewood.		Amount.
		Number of Trees.	Firewood.	
				Rs. a. p.
Godhra	Teak—timber, &c., firewood.	6,000	13,744	17,030 3 2
Hálol	Do. ...	1,935	2,254	5,751 1 0
Kálol	Do. ...	1,320	148	1,973 7 9
Dohad	Do. ...	1,000	403	1,005 0 3
Jhálod	Do. ...	...	228	114 5 0
		10,255	16,777	25,874 1 2

173. This timber has come mostly from occupied survey numbers which are being cleared of the reserved trees according to the orders of Government.

(3).—FREE GRANTS OF FOREST PRODUCE.

174. A comparative statement of the free grants of timber which have been made during the past three years shows the following results :—

Divisions.	1882-83.	1883-84.	1884-85.
	Rs. a. p.	Rs. a. p.	Rs. a. p
North Thána	.....	193 9 6	5 14 0
South Thána	.....		1,759 4 0
West Khándesh	1,526 4 2	1,362 8 2	1,360 13 5
East Khándesh			7 12 0
Násik	934 1 11	342 2 3	209 12 6
Ahmednagar	5 8 0	.....	9 15 0
Poona	225 0 0	275 0 0	295 11 0
Sátára	15 0 0	.....	.....
Sholápur	.....	.....	.....
Surat	512 12 2	1,232 14 1	1,539 0 0
Panch Mahális	1,808 8 3	557 8 0	750 0 0
Total ...	5,027 2 6	3,963 10 0	5,938 1 11

175. The Thána and Surat Collectorates are responsible for the increased number of free grants which by no means represents all the timber, &c., taken from the forest free of payment; the very profuse privileges accorded to the people of the Khándesh Collectorate by proclamation, copy of which appears in Chapter I., have caused very large removals of timber and other forest produce, and the concession of dead wood to the wild tribes in the Thána Divisions has also contributed to extensive destruction of living saplings, and exploitation of great quantities of wood; where the grantees are poor people living in forest villages and in the vicinity of great tracts of reserved forests rich in timber and other forest produce, free gifts of timber, of reasonable extent and value, at the expense of forest revenue to sufferers by fire and flood, and to people whose habitations have decayed by age, cannot be objected to by Forest Officers, but must command their sympathy, so long as the wood is used for the purpose given and is not sold to dealers; but grants to villagers in tálukás and parts of the country at a long distance from any forest, who have no claim upon forest reservations, such as the people residing in the coast villages of Surat, should, the Conservator ventures to think, be made, if at all, at the expense of the Local Funds Budget, and payment should be made to forest revenues of the price of the material.

175 (*a*): Payment for work performed by the wild tribes in the Thána Forest Divisions in burning fire paths, in extinguishing forest fires, in collecting seeds, in sowing and planting and other light work connected with the forests, is made in kind, *i.e.*, in the shape of grants of timber of inferior sorts, such as kakad, shembat, petári, saldon, sawar, pángára. This arrangement though not coming under the category of "free grants" gives satisfaction as far as it has at present worked.

175 (*b*). (4). SUMMARY OF PRODUCE REMOVED FROM THE FORESTS.

Description of Materials.	1883-84.		1884-85.	
	Number.	Khandis.	Number.	Khandis.
Teak logs, green	6,121	2,450	.....	.....
Do. dead	...	640	.....	.....
Teak Sotás...	1,822	.....	.....	.....
Do. pieces	86,223	.....	9,014	385
Do. puthas	4,870	.....	.....	.....
Do. rafters	459,563	.....	519,747	155
Nim	1,660	.....	.....	.....
Ráiwal logs	6,554	.....	.....	.....
Blackwood logs	486	34	774	.....
Do. rafters	103	.....	50,535	136
Khair logs	171	75	.....	.....
Bábul logs	120	.....	.....	.....
				Kh. mds.
Do. bark...	...	26	.....	4 12
Hed or haladwan	9	21	.....	.....
Bibla or beo	110	176	.....	.....
Sadra, dry	381	547	.....	.....
				Kh. mds. s.
Shikakái	...	15	.....	46 7 4
Tiwas	849	.....	.....	.....
Bábul firewood	...	338	.....	.....
Junglewood logs	2,110	.....	.....	.....
Do. rafters	6,185	.....	39,424	1,113
Do. pieces	489	.....	.....	.....
				Tons.
Dead-wood...	...	30,298	.....	1,412
Fire-wood	...	26,912	.....	44,314
		Kh. mds.		Kh. mds.
Charcoal	...	6 13	.....	74 27
Bámbus	959,166	.....	1,108,404	5 Mds.
		Kh. mds.		Kh. mds.
Hirda	...	361 3	.....	1,113 20
Plough-shares	669	.....	.....	.....
	Bundles.		Cart-loads. Head-lds.	
Tahal	1,655	.....	89 1,030	.....
Jámbhul	3,982	.....	.....	.....
Tannach	1,716	183	.....	.....
Ain	1,085	.....	11,358	.....
	Sheaves			
Grass	200	.....	.....	.....
				Kh. mds.
Ain-bark	...	.....	.....	418 15
	...	.....	.....	4,508 14
Mowra flowers	...	.....	.....	42¼ s.
Rice			Head-loads.	
Kárvi	...	.....	230	.....

CHAPTER V.

FINANCIAL RESULTS.

176. The forest revenue of the year under report is the largest on record; it is half a lákh of rupees greater than the receipts of last year, but at the same time the expenditure in both branches has been more considerable, and the surplus revenue is smaller as will be seen from the following comparative statement:—

Official Year.	Receipts.	Expenditure.			Net Revenue.
		A. Conservancy and Works.	B. Establishments.	Total.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1883-84	9,58,314 12 2	2,69,999 15 9	2,41,401 14 7	5,11,401 14 4	4,46,912 13 10
1884-85	10,08,725 3 1	4,04,378 2 6	2,85,709 11 3	6,90,087 13 9	3,18,637 5 4

177. In Form No. 53 attached the summary of revenue and expenditure of the different divisions during the year is given, and a comparison between the receipts and expenditure of the years 1883-84 and 1884-85 under budget heads and sub-heads is presented below :—

Budget Heads.	1883-84.	1884-85.	Increase.	Decrease.
RECEIPTS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Timber and other Produce removed from the Forests by Government Agency—				
(*a*) Timber...	3,45,986 10 2	3,48,647 3 11	2,660 9 9	.....
(*b*) Firewood and charcoal.	33,106 15 5	48,970 1 11	15,863 2 6	.....
(*c*) Bámbus	927 1 3	1,571 5 0	644 3 9	.....
(*d*) Sandal-wood	0 5 0	1 0 3	0 11 3	.....
(*e*) Grass and other minor produce	12,802 11 8	40,275 2 2	27,472 6 6	.....
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—				
(*a*) Timber...	1,09,397 15 3	1,16,985 14 7	7,587 15 4	.....
(*b*) Firewood and charcoal..	1,08,247 5 10	57,561 10 6	.....	50,685 11 4
(*c*) Bámbus	48,648 8 11	61,865 12 2	13,217 3 3	.....
(*d*) Grazing and fodder grass	1,97,963 15 6	2,25,853 5 0	27,889 5 6	.....
(*e*) Other minor produce ...	33,615 8 11	41,209 6 1	7,593 13 2	.....
III.—Confiscated, Drift and Waif Wood	18,471 10 9	4,941 10 6	.....	13,530 0 3
IV.—Revenue from Forests not managed by Government—				
(*a*) Duty on foreign timber and other forest produce	28,618 13 10	34,532 15 0	5,914 1 2	.....
(*b*) Revenue from shared and private forests ...	6,373 8 7	4,197 12 7	.....	2,175 12 0
V.—Miscellaneous—				
(*a*) Fines and forfeitures ..	868 15 7	1,177 11 5	308 11 10	.....
(*b*) Refunds	1,589 6 1	1,233 7 4	.....	355 14 9
(*c*) Other sources	11,695 3 5	19,700 12 8	8,005 9 3	.....
Total Receipts ...	9,58,314 12 2	10,08,725 3 1	1,17,157 13 3	66,747 6 4
EXPENDITURE.				
A.—Conservancy and Works.				
I.—Timber and other Produce removed from the Forests by Government Agency—				
(*a*) Timber...	49,624 3 7	51,502 8 11	1,878 5 4	.....
(*b*) Firewood and charcoal.	5,687 0 4	8,719 12 8	3,032 12 4	.....
(*c*) Bámbus	217 8 6	381 12 8	164 4 2	.....
(*d*) Sandal-wood	.....	405 10 7	405 10 7	.....
(*e*) Grass and other minor produce	4,736 8 11	51,776 6 10	47,039 13 11	.....
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers...	12,228 2 2	27,648 7 6	15,420 5 4	.....
III.—Confiscated, Drift and Waif Wood	168 2 1	154 0 5	.....	14 1 8
IV.—Revenue from Forests not managed by Government—				
(*a*) Duty on foreign timber and other forest produce	4,358 11 10	4,803 4 5	444 8 7	.....
(*b*) Revenue from shared and private forests ...	916 9 2	.....	.....	916 9 2
Carried over ...	.....	.....	.....	.....

Budget Heads.	1883-84.	1884-85.	Increase.	Decrease.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a p.
Brought forward ...	.....	.....	.....	.....
V.—Rent of leased Forests and Payments to Share-holders in Forests managed by Government	17,644 7 1	18,951 10 2	1,307 3 1	.....
VI.—Live Stock, Stores, Tools and Plant—				
(*a*) Purchase of cattle ...	.....	.....	.....	.....
(*b*) Feed and keep of cattle ..	.....	.....	.....	.....
(*c*) Stores, tools and plant ..	308 12 9	130 6 9	.....	178 6 0
VII.—Communications and Buildings—				
(*a*) Roads and bridges ...	936 13 0	1,066 6 6	129 9 6	.....
(*b*) Buildings	4,259 15 4	2,278 12 11	.....	1,981 2 5
(*c*) Other works	216 13 9	604 1 3	387 3 6	.....
VIII.—Demarcation, Improvement and Extension of Forests—				
(*a*) Demarcation	665 13 9	1,693 14 11	1,028 1 2	.....
(*b*) Compensation for land and rights	19,603 0 4	39,984 5 9	20,381 5 5	.....
(*c*) Surveys and working plans	2,150 13 4	4,429 14 6	2,279 1 2	.....
(*d*) Plantations	5,399 14 10	6,849 13 11	1,449 15 1	.....
(*e*) Protection from fire ...	465 10 4	673 6 9	507 12 5	.....
(*f*) Other works	1,35,968 15 2	1,72,751 4 1	36,782 4 11	.....
IX.—Miscellaneous—				
(*a*) Refunds	.....	.....	.....	.....
(*b*) Law charges	288 8 10	59 2 7	.....	229 6 3
(*c*) Other charges ...	4,153 6 8	9,212 14 5	5,059 7 9	.....
Total A.—Conservancy and Works	2,69,999 15 9	4,04,378 2 6	1,37,697 12 3	3,319 9 6
B.—ESTABLISHMENTS.				
I.—Salaries—				
(*a*) Conservators	19,674 3 1	19,391 7 6	.....	282 11 7
(*b*) Superior officers ...	68,864 5 4	94,829 7 4	25,965 2 0	.....
(*c*) Subordinate Forest and Depôt Establishments .	57,648 10 10	57,658 3 4	9 8 6	.....
(*d*) Office Establishments...	30,730 9 5	38,933 10 3	8,203 0 10	.....
(*e*) Deputation and special allowances	.....	82 11 0	82 11 0	.....
II.—Travelling Allowances—				
(*a*) Conservators	2,460 0 0	2,536 3 8	76 3 8	.....
(*b*) Superior officers ...	25,967 11 9	25,863 10 6	.....	104 1 3
(*c*) Subordinate Forest and Depôt Establishments .	11,864 6 6	12,577 11 7	713 5 1	.....
(*d*) Office Establishments...	8,937 8 4	12,407 4 7	3,469 12 3	.....
III.—Contingencies—				
(*a*) Stationery	2,532 10 6	2,834 14 8	252 4 2	.....
(*b*) Carriage of tents and records	2,542 11 8	3,367 2 1	824 6 5	.....
(*c*) Rents, rates and taxes...	2,136 0 0	2,644 5 1	508 5 1	.....
(*d*) Pay of Police Guards. .	.....	.....	.....	.....
(*e*) Official postage ...	5,171 12 6	6,634 15 6	1,463 3 0	.....
(*f*) Sundries	2,821 4 8	5,948 0 2	3,126 11 6	.....
Total, B.—Establishments ...	2,41,401 14 7	2,85,709 11 3	44,694 9 6	386 12 10
GRAND TOTAL OF EXPENDITURE...	5,11,401 14 4	6,90,087 13 9	1,82,392 5 9	3,706 6 4

178. The distribution of receipts among the several divisions in the Circle compared with the collections of the preceding year is as under:—

No.	Forest Divisions.	1883-84.	1884-85.	Increase.	Decrease.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Direction	.....	627 11 8	627 11 8	.....
2	North Thána ...	2,96,785 0 7	2,08,482 7 1	14,774 5 11	.....
3	South Thána ...		1,03,076 15 5		
4	East Khándesh .	1,65,076 4 4	66,550 15 5	23,177 2 11	.....
5	West Khándesh.		1,21,702 7 10		
6	Násik ...	1,20,289 10 10	97,476 7 5	.....	22,813 3 5
7	Ahmednagar ...	35,271 15 0	44,626 13 6	9,354 14 6	.....
8	Poona ...	87,375 1 2	87,296 11 10	.....	78 5 4
9	Sátára ...	49,402 4 2	67,678 5 8	18,276 1 6	.....
10	Sholápur ...	12,802 2 10	24,436 2 5	11,633 15 7	.....
11	Surat ...	1,39,024 9 5	1,11,045 3 3	.....	27,979 6 2
12	Panch Mahál...	47,749 10 1	75,724 13 7	27,975 3 6	.....
	Total ...	9,53,776 10 5	10,08,725 3 1	1,05,819 7 7	50,870 14 11

179. The total of the sums shown under column 1883-84 in the above statement will not correspond with the receipts of that year exhibited in paragraph 177, because the amounts which were credited to forest revenue in the Ahmedabad and Baroda treasuries, Rs. 4,506-13-9 and Rs. 31-4-0 respectively, are not included, and further the forest accounts of the year under report are compiled for forest divisions and not for Collectorates as used to be the practice under the old system.

180. Expenditure under A. Conservancy and Works distributed among the several forest divisions as compared with the expenditure of last year is as under:—

No.	Forest Divisions.	1883-84.	1884-85.	Increase.	Decrease.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Direction... ...	.....	1,761 15 6	1,761 15 6	.....
2	North Thána ...	68,605 5 0	46,878 9 11	67,561 4 5	.....
3	South Thána ...		89,287 15 6		
4	East Khándesh ...	48,104 11 9	19,753 15 5	5,452 1 5	.....
5	West Khándesh ...		33,802 13 9		
6	Násik	23,846 9 3	25,185 10 2	1,339 0 11	.....
7	Ahmednagar ...	21,378 8 7	32,365 7 9	10,986 15 2	.....
8	Poona	42,925 4 9	58,821 13 4	15,896 8 7	.....
9	Sátára	22,268 12 7	42,717 12 2	20,448 15 7	.....
10	Sholápur	10,644 15 0	11,348 0 4	703 1 4	.....
11	Surat	20,693 10 10	22,292 1 7	1,598 6 9	.....
12	Panch Mahál ...	11,332 2 0	20,161 15 1	8,829 13 1	.....
	Total ...	2,69,799 15 9	4,04,378 2 6	1,34,578 2 9	.....

181. The total of the sums shown under column 1883-84 in the above statement will not correspond with the expenditure of that year exhibited in paragraph 177, because the amount of Rs. 200 debited to forests in the Baroda treasury has not been included.

182. In most of the forest divisions of the Northern Circle the revenue has expanded; the increase in receipts is due chiefly to the prices of departmentally collected timber having risen, to more extended operations, and to enhanced prices having been realised from grass and grazing of forest reserves in the Deccan Collectorates. A decrease in revenue of Rs. 22,813 appears against the Násik Forest Division, and is due to smaller quantities of timber having been sold than in the preceding year, and to the hirda crop not having been so productive as was that of 1883-84. In the Surat Division the decrease of revenue exhibited Rs. 27,979, and is owing to the departmentally felled teak in the Mándvi and Bulsár Ranges not having been disposed of before the close of the year, to the

Bombay, Baroda and Central India Railway Company not having taken delivery and paid for the bábul firewood which had been cut upon the railway strips for supply to them, and to a contractor who had undertaken to fell, purchase and remove the timber from the Upper Dángs forests having failed entirely to carry out his engagement.

183. Expenditure under A. Conservancy and Works has increased in all the divisions; this is attributable to more extended operations, to a departmental collection of mowra flowers having been ventured in the Thána and Surat Forest Divisions, to the substitution of the permit to the contract system for supplying local wants in firewood and bámbus and for the purchase and removal of dead wood, in the Thána Collectorate to the entertainment of numerically stronger protective establishments, and to a very much larger expenditure upon compensation for land and rights.

184. Expenditure under B. Establishments is likewise greater owing to the fact that the revision of the superior forest staff, which dates from the 22nd December 1883, was practically introduced after the commencement of this year, and considerable payments of back pay are included in the accounts of the year, and the charges for salaries are upon a higher scale both as to rates of pay and as to the number of officers than before. The cost of Office Establishments is likewise greater because owing to the introduction of the Forest Department system of accounts it has been found necessary to increase the number of clerks both in Divisional Forest Offices and in the Conservator's office.

185. "Grazing and fodder grass" receipts exhibit an increase of Rs. 27,889 upon the last year, and they would have been larger had it not been for an extensive concession of free grazing inside Reserved Forests in the Násik and Khándesh Forest Divisions where no such privilege has been allowed before, and in the Deccan Collectorates of Sholápur, Poona, Ahmednagar and Sátára cattle were permitted to graze free of charge, in some cases the amounts received from purchasers of the right of grazing and grass fodder being returned to them, owing to a long break in the rains and the consequent scarcity of grass in land outside the forest reserves. To the sum of Rs. 2,25,853-5-0 credited in the accounts from this source must be added the sum of Rs. 3,555 which represents the value of the grass supplied to the Alegaon Farm for the feed of Government cattle on account of which administrative credit may only be taken under orders of Government Resolution No. 5227, dated 30th June 1884, Revenue Department.

186. The expenditure on "timber and other produce removed from the forests by consumers and purchasers" is much greater than before, owing to the establishment of depôts in the Thána Forest Divisions for the purpose of supplying permits to villagers and others for the removal of firewood and bámbus from the forests, and for the working of agricultural depôts.

187. Against "compensation for land and rights" the amount debited is much more considerable than the expenditure of the year before. Not only have there been extensive purchases of occupied lands for inclusion in Reserved Forests, but in the Ahmednagar Forest Division rights acquired under conservancy agreements entered into several years ago have been extinguished by purchase. At the commencement of the year inquiries into the claims of the signatories of 39 conservancy agreements were in progress, with the result that 18 of the latter were found to have lapsed through the death of the parties, and 7 were bought up, including that for the forest of Jowle Baleshvar on account of which the sum of Rs. 5,000 was paid under orders of Government Resolution No. 4770, dated 13th June 1884. Under orders of Government, Resolution No. 5084, dated 23rd June 1884, an inquiry was ordered to be held under Section 80 of the Forest Act into the conservancy agreement of Shelvire, and it had not been completed before the end of the year. Also under the orders of Government, Resolution No. 241, dated 10th January 1884, an inquiry was held under Section 80 of the Forest Act into the conservancy agreement of Titvi in the Akola Range, which was cancelled after a payment of Rs. 278-13-4 had been made, *vide* Government Resolution No. 533, dated 19th January 1885. At the close of the year under report 33 conservancy agreements remained to be inquired into, and of the 50 in number already inquired into, 28 had been cancelled by death or purchase and 10 remain in force; 12 are being determined by purchase of rights.

188. A comparative statement of forest receipts and charges of the Northern Circle for the past five years is given in the following table, fractions of a rupee being omitted :—

Budget Major Heads.		1880-81.	1881-82.	1882-83.	1883-84	1884-85.
		Rs.	Rs.	Rs.	Rs.	Rs.
Receipts		6,12,709	7,99,497	9,13,531	9,58,314	10,08,725
Expenditure.	A. Conservancy and Works	2,70,560	2,70,492	3,02,029	2,69,999	4,04,378
	B. Establishments.	2,32,472	2,37,108	2,35,094	2,41,401	2,85,709

(*a*). The Ratnágiri Collectorate was transferred to the Southern Circle.

(*b*). The Kolába Collectorate was transferred to the Southern Circle.

(*c*). The Panvel Táluka of Thána Collectorate was transferred to the Southern Circle.

CHAPTER VI.

GENERAL REMARKS.

189. The Conservator of Forests was on tour in the Surat Division from the 1st to 3rd April, and from 4th to 13th of that month in the Thána Collectorate, and from 14th April to 29th May 1884 in the Poona Division, where Mr. Shuttleworth handed over charge of the Conservator's office to Lieutenant-Colonel MacRae on the 30th April. From the 31st May to 6th November 1884 the Conservator was at head-quarters at Poona for the rainy season, and afterwards from the 7th November 1884 to 23rd February 1885 he was on tour in the Sátára, Sholápur, Ahmednagar and Poona Divisions. Mr. Shuttleworth resumed charge of the Conservator's office upon his return from furlough from Lieutenant-Colonel MacRae on the 7th February 1885, and from the 24th February to 24th March the Conservator was on tour in the Thána Division, and on 25th of that month his camp was moved into the Surat Collectorate where it was at the close of the year.

190. The Collector of Thána has made the following remarks upon the Forest Administration Report of the North Thána Division :—

"As the introduction of the final settlements sanctioned from time to time so largely depends on correct and clear demarcation of the boundaries of the Reserved and Protected areas it is to be hoped that this work will be vigorously taken in hand and completed during the coming season in Sálsette and Bassein. Until this work is done neither the people nor the forest subordinates can say for certain by reason of the complete redistribution, which usually takes place after the settlement, what areas come under what rules, and consequently it is difficult either to enforce the restrictions on the one hand or to make sure on the other hand that full liberty is given to the inhabitants to avail themselves of the various privileges which have been conceded to them by the orders of Government.

"The undersigned has called on the Assistant Collectors to report as regards the action taken by them in the cases submitted to be dealt with by them under Section 43. The chief difficulty in disposing of such cases lies, as Mr. Vidal infers, in the fact that the unauthorized loppings for ráb are usually burnt on the fields before the discoveries are made, and that it is almost impossible to ascertain afterwards the precise quantity of material cut and used by any particular individual from any particular kind of reserved tree, or how much of the material consumed was cut from occupied warkas and how much from forest land. If the Forest Settlement Officer is able, as suggested in the closing paragraph of the Resolution on the Bassein Settlement Report No. 5919 of 22nd July, to classify the Protected Forests in the unsettled tálukás pending final demarcation into (1) lands which will be converted into Reserved Forests, and (2) lands which will remain as Protected Forests or be disforested, it will be practicable to move Government to grant similar concessions as regards lopping ain, dhaura, bonda and nána in the areas to be retained as Protected Forests as have already been granted in the settled tálukás, and it will then be easier to enforce the remaining restrictions.

"If there is really any good reason to suppose that Reserved Forests are "fired for Shikár purposes" the system in force in Kánara of prohibiting the holders of gun licenses from pursuing game in the Reserved Forests without permission of the Conservator or the Divisional Forest Officer under pain of cancellation of licenses, might be introduced. But it is to be feared that in the great majority of cases the fires are otherwise caused.

"As soon as settlement of any táluka is sanctioned under which a certain portion of the Reserved Forest may be closed against grazing, and the people are allowed to graze and cut grass in the remaining unclosed portion as in Sálsette, there ought to be no difficulty in temporarily defining certain areas within the proportion fixed for closure in each village, and selling the exclusive right of grazing therein. It is not necessary for this purpose that there should be regular closures for conservation. The areas thus defined can be considered as temporarily closed. In this way the privileges granted to the villagers on the recommendation of the Forest Settlement Officer will in no way be interfered with, while the whole of the legitimate revenues from grazing will be secured.

"The arrangements made for remunerating the wild tribes for work performed by them seem very judicious.

"The financial results appear to be generally satisfactory. Mr. Wilkins deserves credit for the energy with which he has conducted an exceptionally difficult charge."

191. The Conservator has much pleasure in expressing his entire concurrence with the Collector's opinion regarding the manner in which Mr. Wilkins has performed his duties. Mr. Wroughton also in South Thána has performed his arduous duties with ability, industry and satisfaction.

192. The two Khándesh Divisional Officers, Messrs. Gibson, Deputy Conservator of Forests, and Ryan, Acting Assistant Conservator, have earned the praise of the Collector, who remarks that he "has much pleasure in once more expressing his high appreciation of the manner in which Mr. Gibson performs the duties devolving upon him" and that "Mr. Ryan is a good officer."

193. In forwarding the Divisional Forest Administration Report of Násik the Collector observes that he "is glad to testify to the activity displayed by Mr. W. G. Betham and his Assistant Mr. Clabby in the year under report and to the harmony existent between the Revenue and Forest Departments."

194. Mr. Fagan, the Divisional Forest Officer of Ahmednagar, deserves commendation for the careful and punctual despatch of his office business including accounts and for the enthusiastic devotion to his forest duties which has distinguished his administration during the year.

195. Mr. W. H. A. Wallinger, Deputy Conservator of Forests, has continued to earn the thanks of the Collector and Conservator of Forests by his untiring and intelligent management of the forests of the Poona Division. This officer has done more possibly than any other officer in the service of Government to educate native opinion upon the forest question by opening the eyes of the villagers to the importance of protecting forests and of extending arboriculture; while on tour in the districts it is his habitual practice to take the village officers and cultivators of the villages near his camp into the forests and upon bare hill slopes and there to demonstrate the value of tree protection and the evils attendent upon denudation, not only in the light of a proper provision of timber and other forest produce but also in the matter of water-supply, atmospheric humidity, prevention of land slips and soil erosion, preservation of tanks and river beds and reservoirs against being filled up with silt, &c., and Mr. Wallinger's name will live in the minds of the peasantry in many a humble village in the Poona Collectorate long after his connection with this country shall have terminated.

196. The Collector of Sátára has recorded that Mr. G. K. Betham, Divisional Forest Officer, appears to have moved actively through his charge during the season and to supervise his establishment efficiently.

197. Mr. Fry, Deputy Conservator of Forests, who has been in charge of the Sholápur Division since his return from furlough on the 18th October 1884, has acquired a personal knowledge of the greater portion of his new division.

198. Mr. Dunbar, Deputy Conservator, has continued to do good work in the Panch Maháls notwithstanding that his health has been very indifferent.

199. Of the young Assistant Conservators, Mr. H. W. Keys has been attached to the South Thána Division and has been favourably reported upon, and so has Mr. G. P. Millett who arrived from England and joined the department during the year. Mr. S. Hornidge, while Divisional Forest Officer, Sholápur, paid careful attention to the increase of forest revenue from grazing and fodder grass and is favourably mentioned by Mr. Wallinger for the assistance he afforded him in the Poona Division.

200. Messrs. Govind Rámchandra Mahájan, Lakshman Dáji Joshi, Váman Rámchandra Gaundé, Rastamji Hormasji Madan, G. F. Blackwell and Lakshman Balál Oka, Sub-Assistant Conservators, are reported to have discharged their duties in a very satisfactory manner. Messrs. Blackwell and Madan especially have distinguished themselves in the Thána Collectorate by their activity and energy. But the Conservator regrets to say that Mr. Ganesh Krishna Sháháné has with reasonable cause been unfavourably noticed by the Divisional Forest Officer under whom he has served.

201. During their absence on furlough last summer, Messrs. Shuttleworth, Wroughton, Mainwaring and Fry were invited by the Managing Committee of the International Exhibition of Forestry, which was held at Edinburgh, to officiate as jurors and the Bombay Forest Department was prominently represented, the exhibits which came from the Presidency were much admired, and several of them secured a high place in the awards list.

202. During the year under report there were eight forest students undergoing instructions in the Junior Forest Class attached to the College of Science, Poona.

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

FORM No. 49.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Area of Reserved Forests, 1884-85.

Division or Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.			Added during the year.	Excluded or transferred to other Heads.	Area on 31st March 1885.			No. and Date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.		Acres.	Acres.	Acres.	Equivalent in Square Miles.			
				Sq. Mil.	a.				Sq. Mil.	a.		
North Thána	Thána	.....	236,253	369	93	.....	72,428	163,825	255	625		
South Thána		.....	148,116	231	276	62,402	.....	210,518	328	598		
West Khándesh ...	Khándesh ...	.....	778,566	1,216	326	231,749	6,771	1,003,544	1,568	24		
East Khándesh ...		.....	550,697	860	297	106,281	229,427	427,551	668	31		
Násik	Násik	.....	444,307	694	147	16,365	8,569	452,103	706	263		
Ahmednagar	Ahmednagar ...	.....	511,706	799	346	19,474	34,728	496,452	775	452		
Poona	Poona	.....	476,320	744	160	1,524	94,179	383,665	599	305		
Sátára	Sátára	.....	400,597	625	597	6,196	21,244	385,549	602	269		
Sholápur	Sholápur ...	.....	155,626	243	106	47,642	91,985	111,283	173	563		
Surat	Surat	.....	42,692	66	452	1,266	.....	43,958	68	438		
Dángs		.....	576,000	900	...	.....	.....	576,000	900	...		
Kaira	Kaira	.....	39		39	.....	.....	39	...	39		
Panch Maháls	Panch Maháls ...	.....	141,147	220	347	.....	3,717	137,430	214	470		
		Total ...	4,462,066	6,971	626	492,899	563,048	4,391,917	6,862	237		

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

FORM NO. 49 A.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Area of Protected Forests, 1884-85.

Division or Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.		Added during the year.	Excluded or transferred to other Heads.	Area on 31st March 1885.		No. and Date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
				Sq. Mls. Ac.				Sq. Mls. Ac.		
North Thána ...	Thána	...	2,81,882	440 282	490	49,650	2,32,722	363 402		
South Thána ...		...	2,85,204	445 404	5,223	88,495	2,01,932	315 332		
West Khándesh ...	Khándesh ...	...	1,56,340	244 180	2,771	19,880	1,39,231	217 351		
East Khándesh ...		...	1,99,958	312 278	1,00,413	1,71,416	1,28,955	201 315		
Násik	Násik	...	.....	.....	.....	.....	.....	.....		
Ahmednagar ...	Ahmednagar	...	... .	.....	6,176	.....	6,176	9 416		
Poona	Poona	...	.....	.....	.....	.....	.....	.....		
Sátára	Sátára	...	.....	.....	.....	.....	.....	.....		
Sholápur	Sholápur	...	.....	.....	193	.....	193	0 193		
Surat	Surat	...	.....	.....	.....	.....	.....	.....		
Dángs		...	.....	.....	.....	.....	.....	.....		
Kaira	Kaira	...	.....	.....	.....	.....	.....	.....		
Panch Mahals ...	Panch Mahals	...	35,497	55 297	.....	17,462	18,035	28 115		
		Total ...	9,58,881	1,498 161	1,15,266	3,46,903	7,27,244	1,136 204		

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

Dated Poona, 2nd November 1885.

FORM No. 50.

Forest Department, Northern Circle.

Area of Plantations, 1884-85.

Division.	Name of Plantation.	On 1st April 1884.		Added during 1885-86.		On 31st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		A. g.	Rs. a. p.	A. g.	Rs. a. p.	A. g.	Rs. a. p.	
North Thána Division.								
Máhim	Párgaon	87 5	901 6 0	.....	31 13 0	87 5	933 3 0	
	Sophála	306 0	512 0 2	.....	40 2 10	306 0	552 3 0	
	Warkas	831 7	*.....	.....	9 1 0	831 7	9 1 0	* Cost formerly incurred is not traceable.
	Kamare	392 29¾	181 13 6	.....	.....	392 29¾	181 13 6	
Dháhánu... ...	Dáhánu	2 0	33 4 0	.....	.....	2 0	33 4 0	
Umbargaon ...	Karmálé	127 14	.....	.....	.....	127 14	.....	
	.....	.....	.....	.. ...	0 4 9	.....	0 4 9	
Sálsette	Pách Pákhádi ...	1 0	36 13 9	.....	5 8 0	1 0	42 5 9	
	Parsik	.....	.....	2 0	11 12 0	2 0	11 12 0	
	Kándivli	.....	.....	15 0	71 15 0	15 0	71 15 0	
	Adivli Bhutale ...	.....	.....	2 0	10 8 0	2 0	10 8 0	
Wada	Nandni Gáigotha ...	0 10	.....	2 0	43 8 0	2 10	43 8 0	
	Kalambhé	1 0	.....	0 10	.....	1 10	.....	
	Total ...	1,748 25¾	1,665 5 5	21 10	224 8 7	1,769 35¾	1,889 14 0	
South Thána Division.								
Nil	Nil	Nil						
West Khándesh Division.								
Regular Plantations, Dhulia.	.....	.....	.....	100 plants in pots.	8 4 0	100 0	8 4 0	Expended on raising bámbus from seed to be set out in the forests after growth.
Cultural operations.	Laling	75 0	.....	.....	.....	75 0	.....	Ploughing.
Dhulia	Do.	400 0	.....	500 0	279 12 6	900 0	279 12 6	Sowing in pickaxe holes.
	Ráver	.....	.....	150 0	.....	150 0	.....	Broadcast.
	Nandale	20 0	.....	.....	.....	20 0	.. ...	,,
	Hingné	.....	.....	200 0	.....	200 0	.....	Sowing in pickaxe holes.
	Vadel...	.....	.....	170 0	.....	170 0	.....	,,
Nandurbár ...	Devmogra	160 0	.....	.....	.....	160 0	.....	,,
	Do.	.....	.....	20 0	23 12 6	20 0	23 12 6	Ploughing.
	Do.	.. ...	.....	40 0	.....	40 0	.....	Broadcast.
	Mandal	.....	.....	7 0	.....	7 0	.....	Ploughing.
	Navli	.....	.....	7 0	.....	7 0	.. ...	,,
	Do.	.....	.....	8 0	.....	8 0	.....	Broadcast.
	Do.	.....	.....	15 0	.....	15 0	.....	Sowing in pickaxe holes.
Nizámpur ...	Barai	75 0	.....	50 0	30 6 0	125 0	30 6 0	Broadcast.
Nawápur ...	Káthi Gavan... ..	235 0	... ..	40 0	11 10 0	275 0	11 10 0	Sowing in pickaxe holes.
	Pethápur	.....	.....	16 0	.....	16 0	.....	,,
Pimpalner ...	Dahivel	328 0	.....	161 0	21 4 0	489 (	21 4 0	Broadcast.
	Pimpalner	.....	.....	100 0	.....	100 0	.....	,,
Sháháda	Khaperkheda ...	47 0	.....	7 0	5 0 0	54 0	5 0 0	,,
	Do.	.....	.....	3 0	.....	3 0	.....	Sowing in pickaxe holes.
	Katghar	.....	... ..	8 0	.....	8 0	.....	Broadcast.
	Do.	.....	.....	4 0	.....	4 0	.....	Sowing in pickaxe holes.
	Abhanpur	.....	.....	6 0	.....	6 0	.....	,,
	Do.	.....	.....	6 0	.....	6 0	...	Broadcast.
	Kurangi.	.....	.....	5 0	.....	5 0	.....	,,
	Adgaon	.....	.....	4 0	.....	4 0	.....	,,
	Khargaon	.....	.....	6 0	.....	6 0	.....	,,
	Jatepur	.....	.....	3 0	.....	3 0	.....	,,
	Kudvad	.....	.....	4 0	.....	4 0	.....	,,
	Mhaswad	.....	.....	5 0	.....	5 0	... ..	,,
	Javdé	.....	.....	10 0	.....	10 0	.....	Ploughing.
Shirpur	Mitgaon	400 0	.....	400 0	60 15 6	800 0	60 15 6	Sowing in pickaxe holes.
	Vasardi	.....	.....	300 0	.....	300 0	.....	,,
Taloda	Kallear and Rojwa ...	150 0	.....	25 0	27 8 0	175 0	27 8 0	Ploughing.
	Do. ...	50 0	.....	100 0	.....	150 0	.....	Broadcast.
	Do. ...	.....	.....	70 0	.....	70 0	.....	Sowing in pickaxe holes.
Virdel	Anjanvihir	1,600 0	.....	2,427 0	120 5 6	4,027 0	120 5 6	Broadcast.
	Amli	.....	.....	300 0	.....	300 0	... ..	,,
	Keli	.....	.....	25 0	.....	25 0	.....	,,
	Do.	.....	.....	25 0	.....	25 0	.....	Sowing in pickaxe holes.
	Savraya	.....	.....	40 0	.. ...	40 0	.....	,,
	Adade	.....	... ..	5 0	.....	5 0	.....	,,
	Carried over ...	.....	.....	.....	.....	.....	.....	

FORM No. 50—*continued.*

Division.	Name of Plantation.	On 1st April 1884.		Added during 1885-86.		On 1st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		A. g.	Rs. a. p.	A. g.	Rs. a. p.	A. g.	Rs. a. p.	
	Brought over ...	.....	.....	.....	.....	.....	.....	
West Khándesh Division—contd.								
	Málvan	.....	.....	150 0	.....	150 0	.....	Sowing in pickaxe holes.
	Damdada	.....	.....	50 0	.....	50 0	.....	,,
	Becjree	.....	.....	40 0	.....	40 0	.....	,,
	Shigeda	.....	.....	3 0	.....	3 0	.....	,,
Cultural operations, Nándgaon.	Nándgaon	.....	.....	116 0	36 11 0	116 0	36 11 0	
Málegaon ...	Vadner	.....	.....	200 0	40 0 0	200 0	40 0 0	
	Sawangaon	.....	.....	30 0	.....	30 0	.....	
	Aghar Budrukh ...	.....	.....	35 0	.....	35 0	.....	
	Total ...	3,540 0	.....	5,896 0	657 5 0	9,436 0	657 5 0	
East Khándesh Division.								
Cultural Operations, Sávda.	Mahumandaly ...	115 0	.....	4 0	.....	119 0	.....	Filling in holes.
Bhusával ...	Kuré	.....	.....	60 0	19 4 0	60 0	19 4 0	,,
Amalner	Shirasmani	.....	.....	665 0	79 11 0	665 0	79 11 0	,,
	Ahmedabad	5 0	.....	100 0	6 4 0	105 0	6 4 0	Ploughing.
	Karanji Khurd ...	50 0	.....	164 0	15 2 0	214 0	15 2 0	Filling in blanks.
	Bhortek	25 0	.....	.....	.....	25 0	.....	,,
	Bhairao Pimple ...	65 0	.....	440 0	45 4 0	505 0	45 4 0	Ploughing.
	Mondhalia	25 0	.....	.....	.....	25 0	.....	,,
	Dalwel	75 0	.....	200 0	3 11 0	275 0	3 11 0	,,
	Salegawhán	70 0	.....	.....	.....	70 0	.....	,,
	Hiwarkheda	40 0	.....	.....	.....	40 0	.....	,,
	Karuday	75 0	.....	.....	.....	75 0	.....	,,
	Dholi	25 0	.....	.....	.....	25 0	.....	,,
Erandol	Chonsar	.....	.....	30 0	28 0 0	30 0	28 0 0	,,
	Dowlatpur	.....	.....	10 0	2 0 0	10 0	2 0 0	,,
	Mugpat	.....	.....	5 0	7 12 0	5 0	7 12 0	,,
	Bhalgaon Khurd ..	.....	.....	5 0	1 4 0	5 0	1 4 0	,,
Chálisgaon ...	Pátna Reserve ...	210 0	40 0 0	.....	.....	210 0	40 0 0	Filling in holes.
	Jalpura							
	Bodhré	.....	.....	75 0	45 14 10	75 0	45 14 10	,,
Chopda	Lakadia	30 0	7 0 0	.....	.....	30 0	7 0 0	,,
	Hanumán							
	Jaumjira	.....	.....	25 0	.....	25 0	.....	,,
	Nateshwar	.....	.....	20 0	.....	20 0	.....	,,
	Vaijapur	.....	.....	30 0	.....	30 0	.....	,,
	Dewnal	.....	.....	20 0	.....	20 0	.....	,,
	Karanjaney	.....	.....	25 0	.....	25 0	.....	,,
Jalgaon	Kandaree	20 0	.....	.....	.....	20 0	.....	,,
	Ghosálay	.....	.....	120 0	25 15 0	120 0	25 15 0	Ploughing.
Jámner	Lhasur	50 0	.....	.....	.....	50 0	.....	,,
	Hole	40 0	.....	.....	.....	40 0	.....	,,
	Khalodi	60 0	.....	.....	.....	60 0	.....	,,
	Boregaon	2 0	.....	.....	.....	2 0	.....	,,
	Gaurtala	3 0	.....	220 0	38 2 0	223 0	38 2 0	50 acres broadcasted.
	Patkheda	3 0	.....	.....	.....	3 0	.....	95 do. filling in holes.
	Kumbhári	2 0	.....	.....	.....	2 0	.....	75 do. ploughing.
	Sawarlé	2 0	.....	.....	.....	2 0	.....	,,
Páchora	Rayalé	197 0	34 0 0	.....	.....	197 0	34 0 0	150 acres ploughing and 47 filling in holes.
Edlabad... ...	Anjangaon	.....	.....	300 0	26 6 6	30 0	26 6 6	Filling in holes.
	Total ...	1,189 0	81 0 0	2,518 0	344 10 4	3,437 0	425 10 4	
Násik Division.								
Násik	Belgaon Dhága ...	39 15	30 10 6	.....	26 4 6	39 15	56 15 0	
	Satpur	21 38	5 2 0	.....	4 11 0	21 38	9 13 0	
Sinnar	Deopura	.....	.....	86 2	76 0 0	86 2	76 0 0	
Chándor... ...	Gaharan	150 0	50 0 0	.....	.....	150 0	50 0 0	
Yeola	Vadgaon	70 10	25 0 0	260 27	342 0 0	330 37	367 0 0	
	Total ...	281 23	110 12 6	346 29	448 15 6	628 12	559 12 0	
Ahmednagar Division.								
Nagar	Bábul plantation ...	283 0	.....	167 0	749 0 0	450 0	749 0 0	It is not possible to give any figure for the cost of plantation up to 1st April 1885, as some of the plantations are of longer standing than the records.
Párner	Ditto ...	374 0	.....	129 0	156 0 0	503 0	129 0 0	
Shrigonda ...	Ditto ...	276 0	.....	313 0	70 0 0	589 0	313 0 0	
	Carried over ...	.....	.....	.....	.....	.....	.....	

FORM No. 50—*continued.*

Division.	Name of Plantation.	On 1st April 1884.		Added during 1885-86.		On 1st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		A. g.	Rs. a. p.	A. g.	Rs. a. p.	A. g.	Rs. a. p.	
	Brought over ...	.....	.....	.....	.....	.....	.....	
Ahmednagar Division—contd.								
Karjat	Bábul plantation ...	43 0	.....	33 0	56 0 0	76 0	56 0 0	
Jámkhed ...	Ditto ...	1,166 0	.....	195 0	72 0 0	1,361 0	72 0 0	
Shevgaon ..	Ditto ...	78 0	.....	42 0	30 0 0	120 0	42 0 0	
Nevása	Ditto ...	86 0	.....	88 0	174 0 0	174 0	174 0 0	
Ráhuri	Ditto ...	.....	.....	127 0	158 0 0	127 0	158 0 0	
Kopargaon ...	Ditto ...	69 0	.....	75 0	25 0 0	144 0	25 0 0	
Sangamner ...	Ditto ...	1,333 0	.....	46 0	80 0 0	1,379 0	80 0 0	
Akola	Ditto ...	46 0	.....	34 0	29 0 0	80 0	29 0 0	
	Total ...	3,754 0	.....	1,249 0	1,599 0 0	5,003 0	1,599 0 0	
Poona Division.								
Junnar	Regular plantation ...	.....	27 3 9	.....	11 5 0	.....	38 8 9	
Indápur	Ditto ...	664 0	137 15 9	1,157 0	95 3 0	1,821 0	233 2 9	
Khed	Ditto ...	87 0	71 3 10	24 0	68 7 0	111 0	139 10 10	
Ambegaon ...	Ditto ...	1,437 0	47 13 0	497 0	48 12 0	1,934 0	96 9 0	
Sirúr	Ditto ...	123 0	109 14 0	422 0	196 8 3	545 0	306 6 9	
Bhimthadi ...	Ditto ...	1,170 0	149 8 6	995 0	171 7 0	2,165 0	320 15 6	
Bárámati ...	Ditto ...	616 0	75 0 0	693 0	109 8 0	1,309 0	184 8 0	
Purandhar ...	Ditto ...	1,279 0	129 10 6	1,051 0	94 12 9	2,330 0	224 7 3	
Haveli	Ditto ...	80 0	170 5 10	27 0	110 14 0	107 0	281 3 10	
Mulshi	Ditto ...	288 0	94 15 9	163 0	97 13 0	451 0	192 12 9	
Mával	Ditto ...	289 0	43 12 2	378 0	47 13 3	667 0	91 9 5	
	Total ...	6,033 0	1,057 7 7	5,407 0	1,052 7 3	11,440 0	2,109 14 10	
Sátára Division.								
Khatáv	Maini	65 20	23 12 0	65 20	8 10 9	65 20	32 6 9	The number planted in 1883-84 has been re-planted.
Koregaon ...	Padali	.....	.....	147 31	129 5 3	147 31	129 5 3	Is watered by the Irrigation Department at a cost of the Forest Department.
Karád	Chachegaon	.....	.....	12 36	18 2 3	12 36	18 2 3	Has been fenced with Aguni Vinapur.
Khandála ...	Sukhed	.....	.....	.....	3 6 0	.....	3 6 0	Fencing 5,158 feet of the above description has been made.
Válva	Tándulwádi	.....	.....	3 0	7 11 8	3 0	7 11 18	These old plantations have been made and watered.
	Kanegaon	.....	.....	5 0		5 0		
	Actre Dharan ...	.....	.....	10 0	4 14 6	10 0	4 14 6	
Sátára	Dare Khurd	.....	.....	36 0	23 14 6	36 0	23 14 6	An aloe fencing is made.
Wái	Wái	.....	.....	20 0	66 12 6	20 0	66 12 6	Expenditure in watering and fencing.
Mán	Fort Mahimangar ...	.....	.....	14 0	20 13 6	14 0	20 13 6	Do. in part-nurseries.
Jávli	Medha...	.....	.....	36 5	53 13 0	36 5	53 13 0	Do. in 4,000 feet of fencing of aloe and plantation.
Mahábaleshvar ...	Mahábaleshvar ...	.....	.....	90 0	9 2 0	90 0	9 2 0	
	Bhekawli	.....	.....	5 0	2 2 6	5 0	2 2 6	This plantation consists of pits newly made and of transplantation.
	Bhuteghar	.....	.....	10 0	7 1 3	10 0	7 1 3	
	Avakali	.....	.....	5 0	2 3 0	5 0	2 3 0	
	Gureghar	.....	.....	2 0	0 15 0	2 0	0 15 0	
	Bonderwádi	.....	.....	5 0	1 15 6	5 0	1 15 6	
	Erandol	.....	.....	2 0	0 6 0	2 0	0 6 0	
	Lingmála	35 0	.....	5 0	120 0 0	40 0	120 0 0	This cost is on account of the entertainment of the Máli.
	Total ...	100 20	23 12 0	474 12	481 5 2	574 32	505 1 2	
Sholápur Division	Sholápur	.....	.....	994 0	193 0 0	994 0	193 0 0	
	Bársi	.....	.....	130 0	38 0 0	130 0	38 0 0	
	Mádha	4,085 0	1,162 0 0	320 0	56 0 0	4,405 0	1,218 0 0	
	Karmála	479 0	265 0 0	804 0	178 0 0	1,283 0	443 0 0	
	Pandharpur	1,183 0	694 0 0	520 0	101 0 0	1,703 0	795 0 0	
	Sángola	147 0	173 0 0	89 0	.....	236 0	173 0 0	
	Málsiras	.....	.....	435 0	71 0 0	435 0	71 0 0	
	Total ...	5,894 0	2,294 0 0	3,292 0	637 0 0	9,186 0	2,931 0 0	

FORM No. 50—*continued.*

Division.	Name of Plantation.	On 1st April 1884.		Added during 1885-86.		On 1st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		A. g.	Rs. a. p.	A. g.	Rs. a. p.	A. g.	Rs. a. p.	
Surat Division.								
Chorási	Cultural operations, Dhabholi	.....	.....	22 0	2 0 0	22 0	2 0 0	
Bulsár	Lilápur	.....	.....	.....	1 0 0	.....	1 0 0	Nurseries Casuarina.
	Parnera	.....	.....	10 0	.....	10 0	.....	By Beat Guard.
	Velwanch	.....	.....	12 0	.....	12 0	.....	,,
Párdi	Goima...	.....	.....	11 0	.....	11 0	.....	,,
Chikhli	Gandeva	.....	.....	14 0	.....	14 0	.....	,,
	Saraia...	.....	.....	12 0	.....	12 0	.....	,,
Mándvi	Tadkeswar	.....	.....	5 0		5 0		
	Vereth...	.....	.....	1 0		1 0		
	Kimdungra	.....	.....	2 0		2 0		
	Titoi	.....	.....	10 0	10 0 0	10 0	10 0 0	
	Ghantoli	.....	.....	8 0		8 0		
	Regama	.....	.....	3 0		3 0		
	Khodamba	.....	.....	7 0		7 0		
	Vareli	.....	.....	6 0		6 0		
	Total ...	.....	.....	123 0	13 0 0	123 0	13 0 0	
Panch Maháls Division.	Godhra	.....	.....	94 0	.....	94 0	.....	Two acres planted by each guard in the Panch Maháls Division, not anywhere successful.
	Kálol	.....	.....	10 0	2 8 0	10 0	2 8 0	
	Hálol	.....	.....	16 0	.....	16 0	.....	
	Dohad	.....	.....	.....	.....	.....	.....	
	Jhálod	.....	.....	35 0	.....	35 0	.....	
	Godhra Dayal Bábul Plantation.	5 0	30 0 0	.....	.....	5 0	30 0 0	To remove and cut the grass from the plantation guard.
	Total ...	5 0	30 0 0	155 0	2 8 0	160 0	32 8 0	
	Grand Total ...	22,545 28¾	5,262 5 6	19 482 11	5,460 11 10	41,757 39¾	10,723 1 4	

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

FORM No. 51.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Area of Forest Tracts protected from Fire during the dry Season, 1885, to accompany Report for 1884-85.

No.	Division.	Forest Tracts.	Up to 15th June 1884.		During dry Season, 1885.				Total Cost up to 15th June 1885.	Year in which Protection commenced.	Remarks.
			Area actually protected.	Total Cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
			Acres.	Rs.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
1	North Thána	Sálsette	9,891	..	9,891	514	9,377	3 0 0	3 0 0	1882-83	
		Bassein	51,291	..	51,291	20,269	31,022	..	..	..	
		Máhim	19,724	..	19,724	6,679	13,045	20 0 0	20 0 0	..	
		Dáhánu	80,096	..	80,096	50	80,046	..	..	..	
		Umbargaon	8,312	..	8,312	560	7,752	2 0 0	2 0 0	..	
		Váda	45,776	..	45,776	13,494	32,282	1 0 0	1 0 0	..	
		Total	2,15,090	..	2,15,090	41,566	1,73,524	26 0 0	26 0 0	..	
2	South Thána	Bhiwndi	12,800	9 14 0	34,022	1,958	32,064	..	9 14 0	1883-84	
		Shahápur	90,172	275 0 0	....	....	....	..	275 0 0	Do.	
		Murbád	..	..	6,840	3,099	3,741	87 5 0	87 5 0	1884-85	
		Kinowli	....	..	1,491	1,310	181	125 15 0	125 15 0	Do.	
		Karjat	17,680	46 14 6	....	....	....	..	46 14 6	1883-84	
		Kalyán	22,050	6 3 0	20,000	3,000	17,000	47 12 0	53 15 0	Do.	
		Mokháda	18,077	37 6 0	36,237	835	35,392	0 8 6	37 14 6	Do.	
		Khálápur	4,216	1 15 6	5,945	275	5,670	39 12 9	41 12 3	Do.	
		Total	1,64,995	377 5 0	1,04,525	10,477	94,048	301 5 3	678 10 3	..	
3	West Khándesh	Akráni	....	..	1	¼	¾	..	....	..	Up to 1st June 1885, no more had been burned in Dhulia or Virdel. No fires had taken place in Pan or Baral Reserves. The Amli Reserve had however been burned to a great extent.
		Dhulia	....	..	1,11,698	10	1,11,688	..	....	..	
		Nizámpur	....	..	1,49,851	401	1,49,450	..	....	..	
		Pimpalner	....	..	56,962	5,500	51,462	..	....	..	
		Virdel	....	..	1,778	1,346	432	..	....	..	
		Nándgaon	....	..	11,239	4,457	6,782	..	....	..	
		Total	....	..	3,31,529	11,714¼	3,19,814¾	..	....	..	
4	East Khándesh	Bhusával	125	..	1,012	....	1,012	..	....	1878-79	
		Jalgaon	22,362	..	22,362	150	22,212	..	....	1880-81	
		Chálisgaon	41,559	150 0 0	42,059	1,200	40,859	10 0 0	160 0 0	1884-85	
		Páchora	23,473	..	23,473	....	23,473	..	....	1883-84	
		Edlabad	....	..	39,436	400	39,036	..	....	..	
		Erandol	....	..	....	....	....	..	....	..	
		Chopda	....	..	....	....	....	..	....	..	
		Sávda	48,137	..	41,137	7,000	48,137	..	....	1878-79	
		Jámner	....	..	....	....	....	..	....	..	
		Amalner	884	..	872	12	884	..	....	..	
		Total	1,36,540	150 0 0	1,70,351	8,762	1,61,589	10 0 0	160 0 0	..	
5	Násik	Násik	23,195	..	29,260	455	28,805	..	....	1878	
		Igatpuri	36,232	..	37,254	55	37,199	..	....	Do.	
		Sinnar	39,288	..	39,347	52	39,295	..	....	Do.	
		Dindori	20,223	..	20,230	30	20,200	..	....	Do.	
		Niphád	3,490	..	3,508	....	3,508	..	....	Do.	
		Chándor	18,435	..	18,605	7	18,598	..	....	Do.	
		Báglán	1,18,199	..	1,21,648	5,155	1,16,493	..	....	Do.	
		Kalvan	93,888	..	1,00,191	892	99,299	..	....	Do.	
		Péint	62,963	..	68,620	389	68,231	..	....	Do.	
		Yeola	18,901	..	18,908	1,238	17,670	..	....	Do.	
		Total	4,34,814	..	4,57,571	8,273	4,49,298	..	....	..	
6	Ahmednagar	Nagar	....	..	36,757	238	36,519	..	....	..	
		Párner	....	..	72,902	187	72,715	3 0 0	....	..	
		Shrigonda	....	..	31,007	147	30,860	1 0 0	....	..	
		Karjat	....	..	42,211	172	42,039	..	....	..	
		Jámkhed	....	..	40,022	312	39,710	..	....	..	
		Shevgaon	....	..	19,377	13	19,364	..	....	..	
		Nevása	....	..	21,005	1	21,004	..	....	..	
		Ráhuri	....	..	43,114	657	42,457	..	....	..	
		Kopargaon	....	..	4,712	39	4,673	..	....	..	
		Sangamner	....	..	94,567	1	94,566	..	....	..	
		Akola	....	..	1,07,692	432	1,07,260	8 0 0	....	..	
		Total	....	..	5,13,366	2,199	5,11,167	12 0 0	....	..	

FORM No. 51—*continued.*

No.	Division.	Forest Tracts.	Up to 15th June 1885.		During dry season, 1885.				Total Cost up to 15th June 1885.	Year in which Protection commenced.	Remarks.
			Area actually protected.	Total Cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
			Acres.	Rs.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
7	Poona	Ambegaon	46,109	0 3 0	47,206	1,841	45,365	1 9 6	1 12 6	..	Most strict measures have been taken regarding the work of preventing forest fires. The whole establishment has been employed on this work. The small amounts shown as "total cost" simply refer to paid labor employed to assist in the extinguishing of forest fires. The fire protection which is annually improving is being done by Forest guards.
		Khed	61,529	..	56,291	430	55,861	..	..	..	
		Junnar	56,170	..	56,820	62	56,758	1 12 6	1 12 6	..	
		Mával	51,255	1 2 0	53,983	596	53,387	0 8 0	1 10 0	..	
		Haveli	48,734	..	50,009	1,798	48,211	..	..	..	
		Mulshi	25,633	..	26,005	55	25,950	1 12 0	1 12 0	..	
		Bhimthadi	52,924	..	53,763	1,488	52,275	..	..	..	
		Indápur	59,762	..	62,534	..	62,534	..	..	..	
		Bárámati	19,684	..	19,798	..	19,798	..	..	..	
		Sirúr	18,964	..	18,962	58	18,904	..	..	..	
		Purandhar	25,523	2 4 0	25,797	194	25,603	2 10 0	4 14 0	..	
		Total	4,66,287	3 9 0	4,71,168	6,522	4,64,646	8 4 0	11 13 0	..	
8	Sátára	Mahábaleshvar	20,707	..	21,153	575	20,578	..	..	1878-79	Ordinary protection by the protective establishment.
		Mán	50,070	..	47,800	..	47,800	..	..	..	
		Khatáv	24,151	..	24,272	..	24,272	..	..	..	
		Karád	12,968	..	13,375	..	13,375	..	..	..	
		Wái	39,331	..	39,049	90	38,959	..	..	..	
		Koregaon	25,657	..	27,353	..	27,353	..	..	..	
		Sátára	16,257	..	16,257	8	16,249	..	..	..	
		Tásgaon	38,852	..	46,495	..	46,495	..	..	..	
		Khandála	33,482	..	33,482	102	33,380	..	..	..	
		Jávli	62,919	..	62,919	704	62,215	..	..	..	
		Khánápur	24,949	..	24,949	..	24,949	..	..	..	
		Válva	29,717	..	29,717	256	29,461	..	..	..	
		Pátan	12,449	..	12,449	1,864	10,585	..	..	..	
		Total	3,91,509	..	3,99,270	3,599	3,95,671	..	..	..	
9	Sholápur	Sholápur	32,640	..	32,640	1	32,639	..	..	..	
		Mádha	29,140	..	29,440	..	29,440	..	..	..	
		Barsi	8,960	..	8,960	30	8,930	..	..	..	
		Karmála	44,800	..	44,800	..	44,800	..	..	..	
		Pandharpur	1,920	..	1,920	..	1,920	..	..	..	
		Málsiras	21,120	..	21,120	2	21,118	..	..	..	
		Sángola	19,840	..	19,840	30	19,810	..	..	..	
		Total	1,58,720	..	1,58,720	63	1,58,657	..	..	..	
10	Surat	Mándvi	..	..	41,153	26,841	14,312	..	..	1878	
		Bulsár	..	..	928	88	840	..	..	1878	
		Total	..	..	42,081	26,929	15,152	..	..	..	
11	Panch Maháls	Godhra	..	..	1,18,958	6,284	1,12,674	..	..	1879	
		Kálol	..	..	17,601	390	17,211	..	5 10 0	..	
		Hálol	..	..	19,845	1,006	18,839	..	..	..	
		Dohad	..	..	51,568	1,708	49,860	60	80 0 0	1883	
		Jhálod	..	..	33,779	1,495	32,284	100	100 0 0	..	
		Total	..	..	2,41,751	10,883	2,30,868	160	185 10 0	..	
		Grand Total	19,67,955	530 14 0	31,05,422	1,30,987½	29,74,434½	517 9 3	1,107 1 3	..	

Poona,
2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

FORM No. 52.

Forest Department, Northern Circle.

Prosecutions for Breaches of Forest Rules during 1884-85.

Forest Division and Civil District.	Cases pending from 1883-84.	New Cases of the year.					Total Cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to Forest by Fire.	Unauthorized Felling or Appropriation of Wood & minor Forest Produce.	Grazing without Permission or in Tracts in which grazing is prohibited.	Other Offences.	Total new Cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
North Thána	6	...	22	.....	...	22	28	7	12	14	30	21	42	7
South Thána	21	4	73	1	5	83	104	73	160	29	79	102	239	2
West Khándesh	3	4	21	3	4	32	35	23	44	10	13	33	57	2
East Khándesh	3	4	30	11	4	49	52	32	76	15	35	47	111	5
Násik	6	5	74	1	6	86	92	69	140	18	26	87	166	5
Ahmednagar	12	1	37	31	15	84	96	54	64	22	57	76	121	20
Poona	5	3	235	28	37	303	308	240	409	56	152	296	561	12
Sátára	2	...	26	1	5	32	34	28	42	4	9	32	51	2
Sholápur	3	...	11	29	27	67	70	43	14	10	...	53	57	17
Surat	...	2	5	2	...	9	9	7	31	2	4	9	35	...
Panch Maháls	...		19	.....	10	29	29	23	24	6	6	29	30	...
Total ...	61	23	553	107	113	796	857	599	1,016	186	411	785	1,470	72

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

Poona, 2nd November 1885.

FORM No. 53.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Summary of Revenue and Expenditure of the different Divisions during the year 1884-85.

Budget Heads.	Direction.	Ahmednagar Division.	East Khándesh Division.	West Khándesh Division.	Násik Division.	Panch Mahál Division.	Poona Division.	Sátára Division.	Sholápur Division.	Surat Division.	North Thána Division.	South Thána Division.	Total.
Revenue.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	Rs. a. p.
I.—Timber and other Produce removed from the Forests by Government Agency.													
(*a*) Timber	....	7,937 7 8	8,088 11 3	16,966 1 9	42,695 15 7	24,809 5 8	22,082 8 6	12,356 7 6	129 9 6	39,165 2 11	1,28,955 2 2	45,460 11 5	3,48,647 3 11
(*b*) Firewood and charcoal	....	820 13 3	127 14 0	488 2 0	1,294 0 0	9,768 1 0	10,061 14 0	2,250 13 9	615 8 0	5,536 14 0	10,522 2 11	7,483 15 0	48,970 1 11
(*c*) Bámboos	....	11 0 0	....	....	....	1,214 0 0	275 9 0	62 12 0	8 0 0	....	....	....	1,571 5 0
(*d*) Sandalwood	....	....	....	....	....	....	....	0 10 3	0 6 0	....	....	....	1 0 3
(*e*) Grass and other minor produce	....	4,762 13 7	....	1 12 0	3,197 5 1	14 8 6	3,601 13 6	18,503 15 11	46 4 0	960 0 0	2,296 1 9	6,890 7 10	40,275 2 2
II—Timber and other Produce removed from the Forests by Consumers or Purchasers.													
(*a*) Timber	....	173 4 11	2,659 8 9	17,905 9 6	21,142 9 4	20,656 14 3	39 5 0	63 10 9	0 13 9	19,415 13 6	12,787 2 0	22,141 2 10	1,16,985 14 7
(*b*) Firewood and charcoal	....	226 0 5	5,648 13 9	6,988 6 4	331 6 0	5,217 8 6	1,684 6 4	331 4 3	216 13 9	9,419 13 0	19,164 14 2	8,332 4 0	57,561 10 6
(*c*) Bámboos	....	393 11 6	14,368 13 6	3,849 2 7	7,637 8 7	390 8 0	....	255 3 0	....	17,098 10 9	14,532 0 2	3,340 2 1	61,865 12 2
(*d*) Grazing and fodder grass	....	26,702 8 7	26,585 4 7	37,465 14 6	16,091 4 9	8,469 2 9	45,456 3 3	31,255 10 3	22,521 3 7	1,403 0 0	7,932 12 3	1,970 4 6	2,25,853 5 0
(*e*) Other minor produce	....	735 0 9	183 6 8	8,616 7 6	3,076 11 4	3,565 4 0	258 1 0	983 14 9	206 4 6	14,950 2 11	5,260 15 3	3,373 1 5	41,209 6 1
III.—Confiscated, Drift and Waif Wood	....	108 7 7	1,122 5 1	332 4 5	224 0 0	32 12 0	215 0 7	94 3 0	9 15 9	1,374 14 0	733 6 6	694 7 7	4,941 10 6
IV.—Revenue from Forests not managed by Government.													
(*a*) Duty on foreign timber and other forest produce	....	....	6,807 7 0	27,570 1 0	155 7 0	....	....	....	....	....	....	....	34,532 15 0
(*b*) Revenue from shared and private forests	....	....	7 0 10	....	70 2 8	250 0 0	364 11 0	....	....	333 7 4	2,945 8 8	226 14 1	4,197 12 7
V.—Miscellaneous.													
(*a*) Fines and forfeitures	....	65 15 9	24 1 1	1	117 13 3	1 15 0	499 13 3	8 10 0	....	27 8 0	321 15 10	4 12 3	1,177 11 5
(*b*) Refunds	598 7 8	29 15 4	20 3 6	[illegible]	11 15 11	118 15 9	42 4 7	61 0 0	9 15 11	0 6 0	44 0 9	55 15 9	1,238 7 4
(*c*) Other sources	29 4 0	2,659 10 2	907 5 [illegible]	[illegible]	430 3 11	1,215 14 2	2,715 1 10	1,450 2 3	671 3 8	1,359 8 10	2,986 4 8	3,102 12 8	19,700 12 8
Total	627 11 8	44,626 13 6	66,550 15 5	1,21,702 7 10	97,476 7 5	75,724 13 7	87,296 11 10	67,678 5 8	24,436 2 5	1,11,045 3 3	2,08,482 7 1	1,03,076 15 5	10,08,725 3 1

EXPENDITURE.

A.—Conservancy and Works.

I.—Timber and other Produce removed from the Forests by Government Agency.													
(a) Timber	....	1,111 14 0	2,736 10 0	4,106 9 3	4,518 11 7	5,756 7 11	1,530 7 6	1,721 14 4	11 10 0	7,507 4 1	13,861 4 0	8,634 12 3	51,497 8 11
(b) Firewood and charcoal	....	177 3 9	134 7 0	20 11 6	529 2 3	2,186 7 11	653 1 7	1,337 10 8	78 13 6	487 7 9	1,726 4 6	1,388 6 3	8,719 12 8
(c) Bámboos	....	3 4 0	....	....	....	245 2 8	105 0 0	12 0 0	2 10 0	....	13 12 0	....	381 12 8
(d) Sandalwood	....	....	96 0 6	....	....	....	....	....	....	....	....	....	96 0 6
(e) Grass and other minor produce	....	971 10 3	....	....	1,525 8 8	5 0 0	991 2 9	6,635 15 6	1 14 6	777 0 4	1,839 3 0	39,343 9 11	52,091 0 11
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers.	....	897 15 10	2 13 0	989 2 5	713 14 5	534 6 3	1,479 9 11	1,210 12 0	....	2,291 10 11	9,830 2 0	9,698 0 9	27,648 7 6
III.—Confiscated, Drift and Waif Wood.	....	....	23 4 0	33 3 8	3 9 0	....	....	....	0 8 0	59 0 6	24 13 9	9 9 6	154 0 5
IV.—Revenue from Forests not managed by Government.													
(a) Duty on foreign timber and other forest produce	....	....	2,053 1 1	2,750 3 4	....	....	....	....	....	....	....	....	4,803 4 5
(b) Revenue from shared and private forests	....	....	....	....	....	....	....	....	....	....	....	....	....
V.—Rent of leased Forests and Payments to Shareholders in Forests managed by Government.	....	280 13 4	....	6,399 8 0	....	....	2,225 5 2	450 0 0	....	6,519 8 0	....	3,076 7 8	18,951 10 2
VI.—Live Stock, Stores, Tools and Plant.													
(a) Purchase of cattle	....	....	....	....	....	....	....	....	....	....	....	....	....
(b) Feed and keep of cattle	....	....	....	....	....	....	....	....	....	....	....	....	....
(c) Stores, tools and plants	....	12 8 0	20 0 0	56 0 0	....	8 15 0	0 6 0	15 5 0	13 4 9	4 0 0	....	....	130 6 9
VII.—Communications and Buildings.													
(a) Roads and bridges	....	591 3 0	....	15 4 6	....	....	....	....	....	409 15 0	50 0 0	....	1,066 6 6
(b) Buildings	....	78 2 0	644 5 0	449 5 3	284 15 3	176 6 6	....	....	....	584 6 2	61 4 9	....	2,278 12 11
(c) Other works	....	....	....	115 2 0	....	....	1 3 0	487 12 3	....	....	....	....	604 1 3
VIII.—Demarcation, Improvement and Extension of Forests.													
(a) Demarcation	....	536 0 0	500 15 4	71 3 0	61 3 0	71 13 0	237 10 7	160 9 0	54 9 0	....	....	....	1,693 14 11
(b) Compensation for land and rights	....	6,730 1 9	....	214 15 8	749 15 1	....	21,754 0 0	6,372 2 0	1,003 0 0	51 8 9	400 4 6	2,708 6 0	39,984 5 9
(c) Surveys and working plans	....	691 1 9	280 0 0	487 0 0	56 10 8	818 6 9	666 4 2	547 4 7	250 3 4	162 0 0	456 6 0	14 9 3	4,429 14 6
(d) Plantations	2 8 0	1,598 13 1	615 0 11	764 14 6	702 5 6	33 6 0	1,052 7 3	620 13 8	1,198 9 5	30 9 6	230 6 1	....	6,849 13 11
(e) Protection from fire	....	11 13 0	17 13 0	....	....	230 10 0	8 4 0	....	....	....	26 4 6	678 10 3	978 6 9
(f) Other works	433 13 6	18,604 0 6	12,594 4 1	17,281 0 2	14,135 4 3	10,018 9 5	27,951 12 2	19,957 7 2	8,691 8 10	3,094 2 7	17,152 7 0	22,836 14 5	1,72,751 4 1
IX.—Miscellaneous.													
(a) Refunds	....	....	....	....	....	....	....	....	....	....	....	....	....
(b) Law charges	....	5 14 0	....	....	24 10 9	....	....	....	0 8 0	....	28 1 10	....	59 2 7
(c) Other charges	1,325 10 0	63 1 6	35 5 6	48 10 6	1,879 11 9	76 3 8	165 3 3	3,188 2 0	40 13 0	313 8 0	1,178 0 0	898 9 3	9,212 14 5
Total, A—Conservancy and Works	1,761 15 6	32,365 7 9	19,753 15 5	33,802 13 9	25,185 10 2	20,161 15 1	58,821 13 4	42,717 12 2	11,348 0 4	22,292 1 7	46,878 9 11	89,287 15 6	4,04,378 2 6

FORM NO. 53—*continued.*

Budget Heads.	Direction.	Ahmednagar District.	East Khándesh Division.	West Khándesh Division.	Násik Division.	Panch Mahálś Division.	Poona Division.	Sátára Division.	Sholápur Division.	Surat Division.	North Thána Division.	South Thána Division.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
B.—ESTABLISHMENT.													
I.—Salaries.													
(*a*) Conservators	19,391 7 6	....	....	....	....	....	....	....	....	....	....	....	19,391 7 6
(*b*) Superior officers	548 13 9	7,717 2 5	2,838 5 4	12,618 7 5	9,449 8 3	8,264 8 3	13,502 8 3	9,879 13 5	4,357 9 1	,658 13 1	5,657 12 0	14,336 2 1	94,829 7 4
(*c*) Subordinate Forest and Depôt Establishments	....	4,447 15 5	3,138 2 10	5,515 3 2	10,833 3 10	2,715 12 6	9,717 0 3	6,125 14 10	1,629 6 9	4,568 11 8	5,313 11 2	3,653 0 11	57,658 3 4
(*d*) Office Establishments	4,634 5 0	4,814 11 3	1,953 7 10	1,787 4 1	3,663 11 0	1,792 1 7	4,434 8 8	7,796 7 6	1,721 7 4	1,794 2 10	2,358 8 5	2,182 14 9	38,933 10 3
(*e*) Deputation and special allowances	....	....	82 11 0	....	....	....	....	....	....	....	....	....	82 11 0
II.—Travelling Allowances.													
(*a*) Conservators	2,536 3 8	....	....	....	....	....	....	....	....	....	....	....	2,536 3 8
(*b*) Superior officers	325 4 8	1,897 0 8	1,557 13 2	2,390 11 1	2,299 5 0	1,800 0 0	3,197 2 11	2,944 13 5	1,717 11 10	1,722 9 3	2,019 4 8	3,991 14 3	25,863 10 6
(*c*) Subordinate Forest and Depôt Establishments	....	1,211 8 8	1,064 12 3	1,547 14 7	1,497 12 3	824 12 3	1,693 13 0	1,495 4 10	709 14 3	660 8 1	987 11 10	913 10 9	12,577 11 7
(*d*) Office Establishments	1,490 11 9	1,640 4 9	683 7 7	594 13 1	1,179 11 8	630 7 4	1,221 13 9	2,195 12 9	587 13 3	626 10 3	705 5 1	859 5 4	12,407 4 7
III.—Contingencies.													
(*a*) Stationery	70 12 9	355 4 0	223 4 3	328 6 2	382 2 11	190 10 11	274 3 3	311 12 3	162 4 3	100 10 5	178 2 0	257 5 6	2,834 14 8
(*b*) Carriage of tents and records	380 14 6	314 15 9	238 9 6	299 14 3	338 11 3	137 1 0	332 0 3	292 2 4	157 15 6	168 1 0	283 13 5	422 15 4	3,367 2 1
(*c*) Rents, rates, and taxes	480 0 0	360 0 0	200 0 0	100 0 0	169 5 4	260 0 0	260 0 0	145 2 6	94 3 1	100 0 0	131 7 6	344 2 8	2,644 5 1
(*d*) Pay of Police Guards	....	....	....	....	....	....	....	....	....	....	....	....	....
(*e*) Official postage	554 4 6	814 10 6	642 12 0	502 9 6	607 10 6	265 0 0	950 8 0	537 10 0	310 4 0	160 0 0	505 9 0	784 1 6	6,634 15 6
(*f*) Sundries	383 11 9	490 10 7	598 4 4	314 4 6	1,060 2 10	411 4 2	330 13 7	340 13 7	131 6 3	117 13 2	883 13 1	884 14 4	5,948 0 2
Total, B—Establishment	30,796 9 10	24,064 3 7	13,221 10 1	25,999 7 10	31,472 4 10	17,291 10 0	35,884 8 9	32,065 11 5	11,579 15 7	15,677 15 9	19,025 2 2	28,630 7 5	2,85,709 11 3
GRAND TOTAL OF EXPENDITURE	32,558 9 4	56,429 11 4	32,975 9 6	59,802 5 7	56,657 15 0	37,453 9 1	94,706 6 1	74,783 7 7	22,927 15 11	37,970 1 4	65,903 12 1	1,17,918 6 11	6,90,087 13 9

T. W. RAWLINS,
Accountant General.

Bombay, dated 29th August 1885.

B 859—16 N C

FORM No. 54.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Account Current for the year 1884-85.

Dr. *Cr.*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Cash Balance—			By 3 Refunds and Drawbacks—		
,, I. Land Revenue—			Refunds Divided Heads—		
Miscellaneous, Miscellaneous Receipts	.....	16 14 6	Forest	.....	A874 14 2
,, VI. Provincial Rates—			,, 7 Salt.—Salaries, Establishment and Contingencies—		
Rates and Cesses on Lands, Local—			Salaries, &c., Gujárat Division	16,571 5 8	
Road Cess	3 7 4		Do. Konkan Division	1,848 0 0	
Education Cess	1 11 8				18,419 5 8
		5 3 0	,, 13 Forest	.....	6,90,087 13 9
,, IX. Forest	.....	10,08,725 3 1	,, 19 Law and Justice—		
,, XV. Law and Justice—			Jails, District Jails—		
Jails, Jail Manufactures	469 10 0		,, 26 Scientific and Other Minor Departments	.....	167 0 0
Hire of Convicts	43 8 0		Agricultural Department	.....	36 0 0
		513 2 0	,, Revenue Deposits—		
,, XVI. Police—			Forest Deposits	.....	8,014 12 0
Miscellaneous Receipts	.....	6 10 0	,, Advances Repayable—		
,, XX. Scientific and other Minor Departments—			Advances Recoverable Forest	2,07,974 7 3	
Botanical and Other Public Garden Receipts	.....	40 7 0	,, Forest Advances (Prior to 1884-85).	4 8 6	
,, XXI. Interest—					2,07,978 15 9
Interest on arrears of Revenue	.....	3 0 6	,, Suspense Account	.....	1,876 0 1
,, XXII. Receipts in aid of Superannuation, &c. —			Cheques and Bills—		
Subscriptions to the Military Fund...	... ..	1,631 9 2	Forest Cheques	.....	5,339 11 8
,, XXIII. Stationery and Printing—			Forest Remittances—		
Other Press Receipts	.. ...	3 7 6	Remittances to Treasuries	10,01,931 3 9	
,, XXXIII. Civil Buildings—			Inter-divisional Transfers	14,417 1 8	
Roads and Services—			Inter-departmental Transfers...	2,207 4 8	
Public Works in charge of Civil Officers—					10,18,555 10 1
Road-side trees	.....	4 0 0	Account between Bombay and Military, Bombay—		
,, Revenue Deposits—			IV. Items adjustable by Military	.....	129 12 6
,, Forest Deposits...	.....	13,315 7 0	,, Account between Bombay and Public Works Department		
,, Advances Re-payable—			Ordinary Branches—		
Advances Recoverable from Forests	2,02,647 12 2		Bombay, IV.—Items—		
Forest Advances (Prior to 1884-85)	17 8 0		Adjustable by Public Works Department	.. ...	851 14 9
		2,02,665 4 2	,, Cash Balance	.....	1,800 13 6
,, Suspense Account	.....	1,876 0 1			
,, Cheques and Bills—			A.—Refunds by Forest Accounts... ... ... 874 14 2		
Forest Cheques...	.....	7,10,185 4 2	*Add.*— Refunds adjusted through Treasury Accounts 56 10 6		
,, Forest Remittances			931 8 8		
Inter-divisional Transfers	14,418 0 8				
Inter-departmental Transfers	623 9 9				
		15,041 10 5			
,, Account between Bombay and Public Works Department Ordinary Branches—					
Bombay IV. Items adjustable by Public Works Department	.....	99 9 4			
Total Rupees ...	.....	19,54,132 11 11	Total Rupees ...	.....	19,54,132 11 11

T. W. RAWLINS,
Accountant General.

Bombay, Accountant General's Office, 29th August 1885.

FORM No 55.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Outstandings and Liabilities on account of Contractors and Disbursers of the Northern Circle for 1884-85.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	At Commencement of year.	Recoveries in Cash and Value of Supplies and Work done during year.	At close of year (Total.)	At Commencement of year.	Payments made during year.	At close of year (Total.)	To Department (outstandings.)	By Department (Liabilities.)	
		Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.		
Direction Disbursers	...	500 0 0	500 0 0	...	1,000 0 0	1,000 0 0	500 0 0	..	
North Thána „	...	29,542 5 1	29,542 5 1	...	29,542 5 1	29,542 5 1	.....	...	
South Thána „	...	57,183 0 3	57,183 0 3	...	58,351 15 6	58,351 15 6	1,168 15 3	...	
East Khándesh „	...	4,751 7 8	4,751 7 8	...	4,878 9 0	4,878 9 0	127 1 4	...	
West Khándesh	...	23,225 9 6	23,225 9 6	...	25,589 13 9	25,589 13 9	2,364 4 3	...	
Ahmednagar	...	10,238 8 6	10,238 8 6	...	10,238 8 6	10,238 8 6	.....	...	
Násik	...	9,560 11 1	9,560 11 1	...	9,692 10 1	9,692 10 1	131 15 0	...	
Poona	...	14,303 2 5	14,303 2 5	...	14,303 2 5	14,303 2 5	.....	...	
Sátára	...	23,074 2 7	23,074 2 7	...	23,958 4 6	23,958 4 6	884 1 11	...	
Sholápur	...	2,586 2 3	2,586 2 3	...	2,733 9 9	2,733 9 9	147 7 6	...	
Surat	...	16,713 15 7	16,713 15 7	...	16,741 13 5	16,741 13 5	27 13 10	...	
Panch Mahals	...	10,808 11 3	10,808 11 3	...	10,943 11 3	10,943 11 3	135 0 0	...	
Total ...	...	2,02,487 12 2	*2,02,487 12 2	...	2,07,974 7 3	2,07,974 7 3	5,486 11 1	...	

* Differs from the Credit in the Account Current by Rs. 160, owing to an adjustment in the General Books not broughtinto the Forest Accounts, but which does not alter the balance.

Accountant General's Office,
Bombay, 29th August 1885.

T. W. RAWLINS,
Accountant General.

FORM No. 56.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Revenue realised and outstandings on account of Revenue during 1884-85.

Division.	Particulars.	Outstandings at Commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	REMARKS.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Ahmednagar ...	I. Timber and other produce removed from forests by Government Agency—						*a* Outstandings as per Administration Report for 1883-84. Rs. 888-7-9. Difference, Rs. 108-3-6, due to errors in the figures of the Administration Report for 1883-84.
	a. Timber	.....	7,937 7 8	7,937 7 8	7,937 7 8	.....	
	b. Firewood and charcoal...	.....	820 13 3	820 13 3	820 13 3	.....	
	c. Bámbus	.....	11 0 0	11 0 0	11 0 0	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	4,768 13 7	4,768 13 7	4,762 13 7	6 0 0	
	II. Timber and other produce removed from the forests by consumers and purchasers—						*b* Written off Rs. a. p.
	a. Timber	.....	173 4 0	173 4 0	173 4 0	.....	Under Government Resolution No. 2903, dated 5th April 1884 ... 106 14 0
	b. Firewood and charcoal	.....	226 0 5	226 0 5	226 0 5	.....	
	c. Bámbus	.....	393 11 6	393 11 6	393 11 6	.....	Conservator's No. 1693, dated 5th April 1884 ... ... 22 0 0
	d. Grazing and fodder grass	*a* 996 11 3	26,647 5 1	27,644 0 4	26,702 8 7 941 7 9	b	Government Resolution No. 2903, dated 5th April 1884 .. ... 460 0 0
	e. Other minor produce	.....	735 0 9	735 0 9	735 0 9	.....	
	III. Confiscated, drift and waif wood	.....	108 7 7	108 7 7	108 7 7	.....	Government Resolution No. 3745, dated 9th May 1884 ... ... 352 9 9
	Total, Ahmednagar ...	996 11 3	41,821 15 10	42,818 11 1	41,871 3 4 941 7 9	6 0 0	941 7 9
East Khándesh ...	I. Timber and other produce removed from forests by Government Agency—						*a* Omitted in the statement of outstandings appended to the Administration Report for 1883-84.
	a. Timber	.....	8,088 11 3	8,088 11 3	8,088 11 3	.....	
	b. Firewood and charcoal...	.....	127 14 0	127 14 0	127 14 0	.....	
	c. Bámbus	.....	.....	.. ...	.....	.....	
	d. Sandalwood	.....	.....	... ..	.....	.....	
	e. Grass and other minor produce	.....	.....	.....	.....	.....	
	II. Timber and other produce removed from forests by consumers and purchasers—						
	a. Timber	.....	2,659 8 9	2,659 8 9	2,659 8 9	.....	
	b. Firewood and charcoal	.....	5,648 13 9	5,648 13 9	5,648 13 9	. ....	
	c. Bámbus	.....	14,368 13 6	14,368 13 6	14,368 13 6	.....	
	d. Grazing and fodder grass	*a*20 0 4	26,664 8 2	26,684 8 6	26,585 5 6	99 3 0	
	e. Other minor produce	.....	183 6 8	183 6 8	183 6 8	.....	
	III. Confiscated, drift and waif wood	.....	1,122 5 1	1,122 5 1	1,122 5 1	.....	
	Total, East Khándesh ...	20 0 4	58,864 1 2	58,884 1 6	58,784 14 6	99 3 0	

FORM No. 56—*continued.*

Division.	Particulars.	Outstandings at Commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
West Khándesh ...	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	.. ...	18,674 3 9	18,674 3 9	17,125 1 9	*a* 1,549 2 0	
	b. Firewood and charcoal...	.....	329 2 0	329 2 0	329 2 0	*a*	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	1 12 0	1 12 0	1 12 0	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.. ...	17,905 9 6	17,905 9 6	17,905 9 6	.....	
	b. Firewood and charcoal...	.....	7,006 4 1	7,006 4 1	6,971 12 1	*b* 34 8 0	
	c. Bámbus	.....	3,806 6 7	3,806 6 7	3,806 6 7	*c*	
	d. Grazing and fodder grass	6 12 10	39,852 14 1	39,859 11 11	37,510 10 6	*d* 2,349 0 5	
	e. Other minor produce	.....	8,843 1 6	8,843 1 6	8,618 1 6	*e* 225 0 0	
	III. Confiscated, drift and waif wood	.....	345 4 8	345 4 8	345 4 8	*f*	
	Total, West Khándesh ...	6 12 10	96,764 10 2	96,771 7 0	92,613 12 7	4,157 10 5	
Násik	1. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	226 12 0	42,549 1 7	42,775 13 7	42,695 15 7	79 14 0	
	b. Firewood and charcoal	.....	1,294 0 0	1,294 0 0	1,294 0 0	.....	
	c. Bámbus	.....	.....	... ..	.....	.. ...	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	3,197 5 1	3,197 5 1	3,197 5 1	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	870 6 0	20,272 3 4	21,142 9 4	21,142 9 4	.....	
	b. Firewood and charcoal	.....	331 6 0	331 6 0	331 6 0	.....	
	c. Bámbus	.....	7,637 8 7	7,637 8 7	7,637 8 7	.....	
	d. Grazing and fodder grass	318 1 1	15,897 15 9	16,216 0 10	16,091 4 9	124 12 1	
	e. Other minor produce	.....	3,076 11 4	3,076 11 4	3,076 11 4	.....	
	III. Confiscated, drift and waif wood	.....	224 00 0	224 0 0	224 0 0	.....	
	Total, Násik ...	1,415 3 1	94,480 3 8	95,895 6 9	95,690 12 8	204 10 1	

a Rs. 159 credited to I. *b.* instead of to I. *a.*

		Rs.	a.	p.
b Credits on account of	II. *e* ...	1	6	0
Are included in T. No.	II. *d* ...	0	10	0
53 under this head	II. *e* ...	1	10	0
	III. ...	13	0	3
		16	10	3

c Excess credit instead of under	II. *d.*	44	2	0
Short credit, see note *b*		1	6	0
		42	12	0
d Short credit, see note *e*		44	2	0
Do. note *b*		0	10	0
		44	12	0

e Short credit, see note *b*		1	10	0
f Short credit, see note *b*		13	0	3

Panch Mahâls ...	I. Timber and other produce removed from the forests by Government Agency—					
	a. Timber	.....	24,809 5 8	24,809 5 8	24,809 5 8	.....
	b. Firewood and charcoal	.....	9,768 1 0	9,768 1 0	9,768 1 0	.....
	c. Bámbus	.....	1,214 0 0	1,214 0 0	1,214 0 0	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce	.....	14 8 6	14 8 6	14 8 6	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	20,656 14 3	20,656 14 3	20,656 14 3	.....
	b. Firewood and charcoal	11 0 0	5,206 8 6	5,217 8 6	5,217 8 6	.....
	c. Bámbus	.. ...	390 8 0	390 8 0	390 8 0	.....
	d. Grazing and fodder grass	.....	8,469 2 9	8,469 2 9	8,469 2 9	.....
	e. Other minor produce	a ...	3,566 12 0	3,566 12 0	3,565 4 0	1 8 0
	III. Confiscated, drift and waif wood	.....	32 12 0	32 12 0	32 12 0	.....
	Total, Panch Mahâls ...	11 0 0(a)	74,128 8 8	74,139 8 8	74,138 0 8	1 8 0
Poona	I. Timber and other produce removed from the forests by Government Agency—					
	a. Timber	589 9 0	21,492 15 6	22,082 8 6	22,082 8 6	.....
	b. Firewood and charcoal	507 15 0	9,553 15 0	10,061 14 0	10,061 14 0	.....
	c. Bámbus	.....	275 9 0	275 9 0	275 9 0	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce	.....	3,601 13 6	3,601 13 6	3,601 13 6	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	39 5 0	39 5 0	39 5 0	.....
	b. Firewood and charcoal	.. ...	1,684 6 4	1,684 6 4	1,684 6 4	.....
	c. Bámbus	.....	.....	.....	.....	.....
	d. Grazing and fodder grass	146 8 0	46,934 7 6	47,080 15 6	45,456 3 3	1,624 12 3(b)
	e. Other minor produce	.....	258 1 0	258 1 0	258 1 0	.....
	III. Confiscated, drift and waif wood	.....	215 0 7	215 0 7	215 0 7	.....
	Total, Poona ...	(a) 1,244 0 0	84,055 9 5	85,299 9 5	83,674 13 2	1,624 12 3
Sátára	I. Timber and other produce removed from forest by Government Agency—					
	a. Timber	39 14 0	12,342 5 6	12,382 3 6	12,356 7 6	25 12 0
	b. Firewood and charcoal...	.....	2,250 13 9	2,250 13 9	2,250 13 9	.....
	c. Bámbus	.....	62 12 0	62 12 0	62 12 0	.. ...
	d. Sandalwood	.....	0 10 3	0 10 3	0 10 3	.....
	e. Grass and other minor produce	.....	19,084 0 8	19,084 0 8	18,503 15 11	580 0 9
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	63 10 9	63 10 9	63 10 9	.....
	b. Firewood and charcoal	.. ...	331 4 3	331 4 3	331 4 3	... ..
	c. Bámbus	.....	255 3 0	255 3 0	255 3 0	.....
	d. Grazing and fodder grass	290 13 6	30,986 10 9	31,277 8 3	31,255 10 3	21 14 0
	e. Other minor produce	127 0 0	983 14 9	1,110 14 9	933 14 9	127 0 0
	III. Confiscated, drift and waif wood	.....	94 3 0	94 3 0	94 3 0	.....
	Total, Sátára ...	457 11 6(a)	66,455 8 8	66,913 4 2	66.158 9 5	754 10 9(b)

(a) Admitted in the Conservator's statement appended to the Administration Report for 1883-84.

(a) Outstandings as per Administration Report for 1883-84 ... Rs. a. p. 1,478 10 5
As per this return 1,244 0 0
Difference ... 234 10 5
made up of Rs. 228-11-0 credited to IV b.
and ,, 5-15-5 ,, to V. c.

(b) Out of this sum Rs. 1,478-12-3 have been written off in 1885-86 as per Government Resolution, Revenue Department, No. 3080, dated 16th April 1885.

(a) Difference between this and Statement No. VI. of the Administration Report for 1883-84 due to the error in the statement appended to the Administration Report.

(b) Included two items of 1883-84.

FORM No. 56—*continued.*

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during the year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Sholápur	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	.....	129 9 6	129 9 6	129 9 6	.....	(*a*) Outstandings as per Administration Report for 1883-84, Rs. 666-1-0. Difference due to errors in the figures of the Administration Report.
	b. Firewood and charcoal...	11 5 0	604 3 0	615 8 0	615 8 0	.....	
	c. Bámbus	.....	8 0 0	8 0 0	8 0 0	.....	
	d. Sandalwood	.....	0 6 0	0 6 0	0 6 0	.....	
	e. Grass and other minor produce	.....	46 4 0	46 4 0	46 4 0	.....	(*b*) Written off under Government Resolution No. 8173, dated 17th October 1884 ... ... Rs. a. p. 290 11 0
	II. Timber and other produce removed from the forests by consumers and purchasers—						Conservator's No. 975, dated 11th March 1882 ... ... 113 9 0
	a. Timber	.....	0 13 9	0 13 9	0 13 9	.....	Total ... 404 4 0
	b. Firewood and charcoal	.....	216 13 9	216 13 9	216 13 9	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass	1,427 13 6	21,902 2 1	23,329 15 7	22,521 3 7 404 4 0(*b*)	404 8 0	
	e. Other minor produce	11 0 0	206 4 6	217 4 6	206 4 6	11 0 0	
	III. Confiscated, drift and waif wood	.....	9 15 9	9 15 9	9 15 9	.....	
	Total, Sholápur ...	1,450 2 6(*a*)	23,124 8 4	24,574 10 10	23,754 14 10 404 4 0	415 8 0	
Surat	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	.....	39,165 2 11	39,165 2 11	39,165 2 11	.....	
	b. Firewood and charcoal...	.....	5,536 14 0	5,536 14 0	5,536 14 0	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	960 0 0	960 0 0	960 0 0	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.....	19,415 13 6	19,415 13 6	19,415 13 6	.....	
	b. Firewood and charcoal...	.....	9,419 13 0	9,419 13 0	9,419 13 0	.....	
	c. Bámbus	.....	17,098 10 9	17,098 10 9	17,098 10 9	.....	
	d. Grazing and fodder grass	.....	1,403 0 0	1,403 0 0	1,403 0 0	.....	
	e. Other minor produce	.....	14,950 2 11	14,950 2 11	14,950 2 11	.....	
	III. Confiscated, drift and waif wood	.....	1,374 12 0	1,374 12 0	1,374 12 0	.....	
	Total, Surat ...	.....	1,09,324 5 1	1,09,324 5 1	1,09,324 5 1	.....	
North Thána ...	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	20 0 0	1,28,935 2 2	1,28,955 2 2	1,28,955 2 2	.....	(*a*) Omitted in the Conservator's statement appended to the Administration Report for 1883-84.
	b. Firewood and charcoal...	.....	10,522 2 11	10,522 2 11	10,522 2 11	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	(*b*) Rs. 4,351-2-11 have been shown in Form No. 53 under II. *a.* Instead of under II *b.*
	e. Grass and other minor produce	.....	2,296 1 9	2,296 1 9	2,296 1 9	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.....	8,435 15 1	8,435 15 1	8,435 15 1	*b*	

	b. Firewood and charcoal...	.....	23,516 1 1	23,516 1 1	23,651 1 1	b.....	
	c. Bámbus	.....	14,532 0 2	14,532 0 2	14,532 0 2	.....	
	d. Grazing and fodder grass	.....	7,932 12 3	7,932 12 3	7,932 12 3	.....	
	e. Other minor produce	.....	5,260 15 3	5,260 15 3	5,260 15 3	.....	
	III. Confiscated, drift and waif wood	.....	733 6 6	733 6 6	733 6 6	.....	
	Total, North Thána ...	20a 0 0	2,02,164 9 2	2,02,184 9 2	2,02,184 9 2	.....	
South Thána. ...	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	.....	45,460 11 5	45,460 11 5	45,460 11 5	.....	
	b. Firewood and charcoal	.....	7,558 15 0	7,558 15 0	7,483 15 0	75 0 0	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	6,893 7 10	6,893 7 10	6,890 7 3	3 0 0	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.....	22,141 2 10	22,141 2 10	22,141 2 10	.....	
	b. Firewood and charcoal...	.....	8,406 0 4	8,406 0 4	8,332 4 0	73 12 4	
	c. Bámbus	.....	3,340 2 1	3,340 2 1	3,340 2 1	.....	
	d. Grazing and fodder grass	.....	1,970 4 6	1,970 4 6	1,970 4 6	.....	
	e. Other minor produce	.....	3,373 1 5	3,373 1 5	3,373 1 5	.....	
	III. Confiscated, drift and waif wood	.....	694 7 7	694 7 7	694 7 7	.....	
	Total, South Thána ...	.....	99,838 5 0	99,838 5 0	99,686 8 8	151 12 4	
Total, Northern Circle. ...	I. Timber and other produce removed from the forests by Government Agency—						
	a. Timber	876 3 3	3,49,584 12 11	3,50,460 15 11	3,48,806 3 11	1,654 12 0	(a) Writes off.
	b. Firewood and charcoal...	519 4 0	48,366 13 11	48,885 1 11	48,811 1 11	75 0 0	
	c. Bámbus	.....	1,571 5 0	1,571 5 0	1,571 5 0	.....	
	d. Sandalwood	.....	1 0 3	1 0 3	1 0 3	.....	
	e. Grass and other minor produce	.....	40,864 2 11	40,864 2 11	40,275 2 2	589 0 9	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	870 6 0	1,11,764 4 9	1,12,634 10 9	1,12,634 10 9	.....	
	b. Firewood and charcoal...	11 0 0	61,993 7 6	62,004 7 6	61,896 3 2	108 4 4	
	c. Bámbus	.....	61,823 0 2	61,823 0 2	61,823 0 2	.....	
	d. Grazing and fodder grass	3,206 12 6	2,28,661 2 11	2,31,867 15 5	2,25,898 1 11 (a) 1,345 11 9	4,624 1 9	
	e. Other minor produce	138 0 0	41,437 8 1	41,575 8 1	41,211 0 1	364 8 0	
	III. Confiscated, drift and waif wood	.....	4,954 10 9	9,454 10 9	4,954 10 9	.....	
	GRAND TOTAL ...	5,621 9 6	9,51,022 5 2	9,56,643 14 8	9,47,882 8 1 (a) 1,345 11 9	7,415 10 10	

Office of Accountant General, Bombay,
October 1885.

T. W. RAWLINS,
Accountant General.

FORM No. 57.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Financial Results of the year 1884-85.

Division.	Timber and other Produce removed from the Forests by Government Agency.		Other Revenue.		Formation, Protection and Improvement of Forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
North Thána	1,41,773	30,771	66,709	13,567	21,566	2,08,482	65,904	
South Thána	59,835	69,539	43,242	18,549	29,830	1,03,077	1,17,918	
West Khándesh	17,456	24,048	1,04,246	14,762	20,993	1,21,702	59,803	
East Khándesh	8,217	10,980	58,334	5,405	16,591	66,551	32,976	
Násik	47,187	30,520	50,289	5,685	20,453	97,476	56,658	
Ahmednagar	13,532	19,244	31,095	5,940	31,246	44,627	56,430	
Poona	36,022	30,934	51,275	9,788	53,984	87,297	94,706	
Sátára	33,175	33,510	34,504	8,312	32,962	67,678	74,784	
Sholápur	800	7,803	23,636	3,029	12,095	24,436	22,927	
Surat	45,662	20,793	65,383	11,884	5,293	1,11,045	37,970	
Panch Mahals	35,806	20,965	39,919	3,799	12,689	75,725	37,453	
Direction	.....	24,575	628	4,352	3,632	628	32,559	
Total ...	4,39,465	3,23,682	5,69,260	1,05,072	2,61,334	10,08,725	6,90,088	

Poona, 2nd November 1885

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

FORM No. 58.

Forest Department Northern Circle.

Trees felled by Government Agency during the year 1884-85 (Selection Fellings).

Division.	Trees Felled.		Remarks.
	Description.	Number.	
North Thána	.....	...	There are no selection fellings in this Division.
South Thána	.....	...	
West Khándesh	Teak	41,360	
	Miscellaneous ...	454	
	Salai	1,038	
	Shivan	50	
	Ain	5	
	Total ...	42,907	
East Khándesh	Teak	9,543	
	Bábul...	1,249	
	Miscellaneous ...	17	
	Total ...	10,809	
Násik	Teak	60,142	
Ahmednagar	Bábul and Bor ...	1,134	
	Jámbul	1,623	
	Bámbus	100	
	Teak	17,802	
	Total ...	20,659	
Poona	Teak	16,490	
	Bábul	3,164	
	Total ...	19,654	
Sátára	Teak	8,698	
Sholápur	Bábul...	22	
Surat	Teak	32,107	
	Bábul...	1,195	
	Total ...	33,302	
Panch Mahals	... ..	...	
	Total ...	1,96,193	

Abstract of the above.

Description.	Number.	Description.	Number.
Teak	186,142	Jámbul	1,623
Bábul and Bor ...	6,764	Miscellaneous ...	471
Shivan	50	Bámbus	100
Ain	5		
Salai	1,038	Total ...	196,193

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

Poona, 2nd November 1885.

B 859—18 N C

FORM No. 59.

Forest Department, Northern Circle.

Outturn of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Produce cut and collected.			
	How obtained.	Description.	Number or Quantity.	Cubic Feet.
North Thána ...	Improvement felling.	Teak pieces	90,192	.....
		Ain	9,268	.....
		Blackwood	70	.....
		Teak firewood ... Khandis.	3,065	.....
		Do. ...Large carts.	2,131	.....
		Do. ...Small carts.	254	.....
		Mis. do. ... Khandis.	432	.....
		Mixed do. ... ,,	6,000	.....
			Kh. m s.	
	Special felling ...	Ain bark ... ,,	417 15 0	.....
	Special	Charcoal ... ,,	12 5½ 0	.....
	Improvement ...	Tahál ... ... Carts.	78	.....
	Do. ...	Do. ... ...Head-loads.	830	.....
			Kh. m. s.	
	Special collection ...	Mhowra ... ... Khandis.	14 12 0	.....
South Thána ...	Departmentally felled.	Teak pieces	68,279	.....
		Injaili do.	2,856	.....
	Confiscated ...	Blackwood	10	.....
		Firewood ... Pieces.	3,860	.....
			Kh. mds. s.	.....
	Departmentally felled	Do.	7,667 8 7	.....
		Do. ... ... Heaps.	188½	.....
		Do. ... ... Carts.	153½	.....
	Confiscated ...	Do. ... ...Head-loads.	281	.....
			Kh. m. s.	
		Do. vistar ... Khandis.	526 14 0	.....
		Mhowra flowers ... ,,	2,573 0 9	.....
	Departmentally felled	Hirda nuts ... ,,	244 12 1	.....
		Ain bark ... Bundle.	1	.....
		Tahál ... ...Head-loads.	243	.....
		Tahál ... ... Carts.	11	.....
		Bámbus	164	.....
		Kárvi ... ...Head-loads.	230	.....
West Khándesh.	Selection felling ...	Teak rafters	34,894	.....
		Do. kories	3,212	.....
		Do. logs	58	.....
		Do. puthas	1,365	.....
		Do. pieces	635	.....
		Do. square pieces	190	.....
		Ain	5	.....
		Shivan	50	.....
		Small kowries	733	.....
		Batvad	273	.....
		Firewood ... Khandis.	699	.....
		Do. ... ... Carts.	50	.....
		Rice ... ... Sers.	42¼	.....
East Khándesh.	Selection felling and thinning ...	Teak rafters	25,988	.....
		Firewood	283	.....

FORM No. 59—*continued.*

Division.	Produce cut and collected.			
	How obtained.	Description.	Number or Quantity.	Cubic Feet.
Násik	Selection felling ...	Teak rafters	121,959	.....
		Junglewood ... Khandis.	246	.....
		Teak firewood ... ,,	20	.....
		Bábul firewood ... ,,	979½	.....
			Kh. lbs.	.....
		Hirda	130 704	.....
Ahmednagar ...	Felling ...	Teak	40,176	Kh. m. lbs. 776 12 0
		Jámbul	6,148	335 22 0
		Bábul and Bor	.....	769 11 0
		Do. head-loads ...Head-loads.	43	.....
		Bámbus	100	.....
		Tarwad	.....	29 9 5
	Confiscation ...	Confiscated	183	41 5 25¼
	Special collections ...	Hirda	.....	151 25 8
Poona ...	Selection felling ...	Teak	67,416	.....
				Kh. mds. s.
		Bábul	.....	3,472 7 4
		Bámbus	34,000	.....
				Kh. mds. lbs.
		Hirda	.....	142 2 12
Sátára	Selection felling and thinning ...	Teak	44,948	.....
		Bábul or ráival	15,538	.....
		Charcoal...	.....	38 12 0
		Bámbus	600	.....
				Kh. m. s.
		Hirda	.....	444 11 4¼
		Shikakái	.....	46 7 4
		Firewood	.....	2,325 0 0
Sholápur ...	Fellings ...	Bábul logs	22	.....
		Sandalwood ... Tree.	1	.....
		Bábul, firewood	.....	270 0 0
		Do. bark	.....	4 12 0
		Bámbu branches	.....	0 5 0
Surat	Improvement felling	Teak ... ... Feet.	34,172	53,226
		Firewood ... Tons.	1,412	.....
Panch Mahals	Departmentally felled	Teak rafters	33,776	.....
		Do. logs	470	.....
		Do. beams	31	.....
		Do. poles	1	.....
		Do. pieces	83	.....
		Mhowra logs	103	.....
		Firewood ... Khandis.	14,342	.....
		Bámbus	30,458	.....

FORM No. 59—*continued.*

Abstract of the Circle.

Description.	Number.	Khandis.	Head-loads.	Heaps.	Carts.	Tons.
Teak, &c., timber	590,683	.....	...	...	...	...
Ain	9,267	.....	...	...	...	...
Blackwood	80	.....	...	...	...	...
Injaili	6,716	.....	...	...	...	...
Firewood	...	40,444 22 13¼	324	188½	1,688½	1,412
Ain bark	...	417 15 0	1 bundle.	...	...	...
Charcoal	...	40 17½ 0	...	...	...	...
Tahál	...	.....	1,073	...	89	...
Mhowra	...	2,587 12 9	...	...	...	...
Hirda	...	1,113 20 1¾	...	...	...	...
Bámbus	65,322	.....	...	...	...	...
Kárvi	...	.....	230	...	...	...
Rice	...	42¼ sers.	...	...	...	...
Shivan	50	.....	...	...	...	...
Tarvad	...	29 9 5	...	...	...	...
Shikakái	...	46 7 4	...	...	...	...
Bábul bark	...	4 12 0	...	...	...	...
Total ...	672,118	44,683 21 19	1,627	188½	1,777½	1,412
	...	.....	1 bundle.	...	...	...

A. T. SHUTTLEWORTH,
Conservator of Forests, Northern Circle.

Poona, 2nd November 1885.

FORM No. 60.

Forest Department, Northern Circle.

Timber and other Produce received from Forest in Sale Depôts during the year 1884-85.

Division.	Depôt.	Produce received. Description.	Number or Quantity.	Cubic Feet.
				Kh. m. s.
North Thána ...		Teak rafters	70,770	.....
		Do. logs	1,500	.....
		Ain rafters	8,353	.....
		Blackwood, khair, kalamb, anjan, &c. ...	12,009	.....
		Junglewood rafters and logs	1,654	.....
		Total, Timber ...	94,286	.....
		Firewood ... ... Khandis.	...	10,959 0 0
		Charcoal ... ... „	...	12 5 14
		Ain bark ... ... „	...	417 15 0
		Mhowra ... ... „	...	15 14 12½
		Tahál for ráb ... ... Cart-loads.	78	.....
		Do. ... ...Head-loads.	1,030	.....
South Thána ...		Teak rafters	43,279	.....
		Do. logs	1,000	.....
		Ain rafters	1,080	.....
		Blackwood, khair, kalamb, &c. ...	9,010	.....
		Junglewood logs and rafters... ...	5,456	.....
		Total, Timber ...	59,895	.....
		Bámbus	164	.....
		Firewood ... ... Khandis.	...	9,894 9 0
		Ain bark ... ... „	...	1 0 0
		Mhowra flowers ... ... „	...	2,573 0 9
		Hirdas ... ... „	...	244 12 1
		Tahal for ráb ... ... Cart-loads.	11	.....
		Kárvi ... ... Head-loads.	230	.....
West Khándesh.		Teak rafters	41,029	.....
		Do. logs	414	.....
		Ain rafters	5	.....
		Blackwood, khair, kalamb, &c. ...	7,058	.....
		Junglewood rafters and logs	3,437	.....
		Total, Timber ...	51,943	.....
		Firewood ... ... Khandis.	...	724 0 0
		Rice ... ... Sers.	...	0 0 42½

FORM No. 60—*continued.*

Division.	Depôt.	Produce received. Description.	Number or Quantity.	Cubic Feet.
East Khándesh ...		Teak rafters	28,074	.....
		Blackwood, khair, &c.	6,589	.....
		Junglewod logs and rafters	2,811	.....
		Total Timber ...	37,474	.....
		Firewood ... ... Khandis.	...	283 0 0
Násik ...		Teak rafters	121,959	.....
		Junglewood rafters and logs ...	3,975	.....
		Total Timber ...	125,934	.....
		Firewood ... ... Khandis.	...	1,346 1 0
		Hirdas ... ... „	...	130 25 4
Ahmednagar ...		Teak rafters	40,176	.....
		Junglewood logs and rafters ...	6,531	.....
		Total, Timber ...	46,707	.....
		Firewood ... ... Khandis.	...	1,953 19 2¼
		Hirdas ... ... „	...	151 25 8
		Bámbus	100	.....
Poona ...		Teak rafters	67,416	.....
		Firewood ... ... Khandis.	...	3,472 7 4
		Hirdas ... ... „	...	142 2 12
		Bámbus	34,000	.....
Sátára ...		Teak rafters	44,948	.....
		Junglewood logs and rafters	15,538	.....
		Total Timber ...	60,486	.....
		Firewood ... ... Khandis.	...	3,370 8 0
		Charcoal ... ... „	...	62 22 9
		Hirdas ... ... „	...	444 11 4¾
		Shikakái ... ... „	...	46 7 4
		Bámbus	600	.....
Sholápur ...		Junglewood rafters and logs ...	22	.....
		Firewood ... ... Khandis.	...	168 0 0
		Bámbu branches ... ... „	...	0 5 0
		Bábul bark ... ... „	...	4 12 0

FORM No. 60—*continued.*

Division.	Depôt.	Produce received. Description.	Number or Quantity.	Cubic Feet.
Surat ...		Teak rafters	28,145	155 0 0
		Do. logs	6,000	385 0 0
		Ain rafters	975	.....
		Blackwood, kalamb, anjan, &c. ...	4,094	136 0 0
		Junglewood rafters	...	1,113 0 0
		Total Timber ...	39,214	1,789 0 0
		Firewood ... ... Tons.	...	1,412 0 0
		Mhowra flowers ... ... Khandis.	...	1,920 0 0
		Bámbus	10,42,135	.....
Panch Maháls...		Teak rafters	33,951	.....
		Do. logs	100	.....
		Ain rafters	945	.....
		Blackwood, kalamb, anjan, &c. ...	11,705	.....
		Blackwood logs	774	.....
		Total Timber ...	47,475	.....
		Firewood	...	12,174 0 0
		Bámbus	31,405	.....

ABSTRACT OF THE NORTHERN CIRCLE.

Description.	Number or Quantity.	Cubic Feet.
Teak rafters ... ... Khandis.	519,747	155 0 0
Teak logs ... ... „	9,014	385 0 0
Ain rafters	11,358	.....
Blackwood, khair, kalamb and anjan rafters... Khandis.	50,535	136 0 0
Blackwood logs	774	.....
Junglewood logs and rafters ... ... Khandis.	39,424	1,113 0 0
Total Timber ...	630,852	1,789 0 0
Firewood ... ... 1,412 tons.	...	44,344 17 6¼
Charcoal	...	74 27 23
Bámbus and zithas	1,108,404	0 5 0
Ain bark	...	418 15 0
Mhowra flowers	...	4,508 14 21½
Hirdas	...	1,113 20 1¾
Rice...	...	0 0 42¼
Shikakái	...	46 7 4
Bábul bark	...	4 12 0
Kárvi ... ...Head-loads.	230	.....
Tahál for ráb ... ... Cart-loads.	89	.....
Do. ... ...Head-loads.	1,030	.....

A. T. SHUTTLEWORTH,

Poona, 2nd November 1885.

Conservator of Forests, Northern Circle.

FORM No. 61.

Forest Department, Northern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Cubic Feet.
		Removed by Purchasers.		Kh. m. s.
North Táhna ...		Teak rafters	18,575	.....
East Khándesh.		Teak rafters	27,860	.....
		Junglewood logs and rafters ...	466	.....
		Total Timber...	28,326	.....
Panch Mahálś...		Teak rafters	33,951	.....
		Teak logs	802	.....
		Total Timber ...	34,753	.....
		Total Timber ...	81,654	.....
		Sold Locally.		
North Thána ...		Teak rafters	50,894	.....
		Teak logs	1,500	.....
		Ain rafters	8,353	.....
		Blackwood, Khair, Kalamb, &c. ...	11,847	.....
		Junglewood logs and rafters. ...	4,100	.....
		Total Timber ...	76,694	.....
		Firewood	...	10,855 0 0
		Charcoal	...	12 5 14
		Ain bark	...	417 15 0
		Mhowra flowers	...	14 22 0
		Tahál for ráb ... ... Cart-loads.	78	.....
		Bámbus ... ...Head-loads.	1,030	.....
South Thána ...		Teak rafters	35,365	.....
		Teak logs	1,000	.....
		Ain rafters	1,080	.....
		Blackwood, Khair, Kalamb, &c. ...	9,080	.....
		Junglewood logs and rafters ...	5,590	.....
		Total Timber ...	52,115	.....
		Firewood	...	5,011 11 24½
		Ain bark	...	1 0 0
		Mhowra flowers	...	85 13 16¾
		Tahál for ráb ... ...Head-loads.	1,456	.....
		Do. ... ... Cart-loads.	11	.....
		Bámbus	164	.....
		Hirdas	...	244 12 1
		Kárvi ... ...Head-loads.	230	.....

FORM No. 61—*continued.*

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Cubic Feet.
				Kh. m. s.
West Khándesh.		Teak rafters	42,817	.....
		Teak logs	3,079	.....
		Ain rafters	5	.....
		Blackwood, Khair and Kalamb rafters ...	7,227	.....
		Junglewood logs and rafters ...	4,573	.....
		Total Timber...	57,761	.....
		Firewood	...	323 21 0
		Rice	...	0 0 42¼
East Khándesh..		Teak rafters	15,635	.....
		Blackwood, Khair and Kalamb rafters ...	6,694	.....
		Junglewood logs and rafters ..	3,289	.....
		Total Timber ...	25,618	.....
		Firewood	...	273 0 0
Násik		Teak rafters	1,60,161	.....
		Junglewood logs and rafters... ...	3,975	.....
		Total Timber ...	1,64,136	.. ...
		Firewood	...	1,390 14 0
		Hirdas	...	129 27 8
Ahmednagar ...		Teak rafters	36,968	.....
		Junglewood logs and rafters... ...	6,531	.....
		Total Timber ...	43,499	.....
		Firewood	...	1,635 18 24¾
		Bámbus	100	.....
		Hirdas	...	151 25 8
Poona		Teak rafters	67,416	.....
		Firewood	...	3,472 7 4
		Hirdas	...	142 2 12
		Bámbus	34,000	.....
Sátára		Teak rafters	45,657	.....
		Junglewood logs and rafters ...	6,362	.....
		Total Timber ...	52,019	.....
		Firewood	...	3,271 26 5
		Charcoal	...	28 8 2
		Hirdas	...	341 21 12¾
		Bámbus	600	.....
Sholápur. ...		Rafters	37	.....
		Firewood	...	357 0 0
		Bámbu branches	...	0 5 0
		Bábul bark	...	4 12 0
Surat		Teak rafters	25,278	155 0 0
		Teak logs	5,198	385 0 0
		Ain rafters	975	.....
		Blackwood, Khair and Kalamb rafters ...	4,094	136 0 0
		Junglewood logs and rafters ...	90	1,113 0 0
		Total Timber ...	35,635	1,789 0 0

FORM No. 61—*continued.*

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Cubic Feet.
				Kh. m. s.
Surat ...		Firewood ... Tons and Khandis.	1,201	329 0 0
		Mhowra flowers	...	1,920 0 0
		Bámbus	1,042,135	.....
Panch Mahals...		Teak rafters	138	.....
		Teak logs	100	.....
		Ain rafters	945	.....
		Blackwood, Khair and Kalamb rafters ...	11,705	.....
		Blackwood logs	774	.....
		Total Timber ...	13,662	.....
		Firewood	...	14,473 0 0
		Bámbus	31,405	.....

ABSTRACT OF THE CIRCLE.

Description.	Number or Quantity.	Cubic Feet or Khandis.
Sold from Depôts.		Kh. m. s.
Teak rafters	80,386	.....
Teak logs	802	.....
Junglewood logs and rafters	466	.....
Total Timber...	81,654	.....
Sold Locally.		
Teak rafters	4,80,426	155 0 0
Teak logs	10,877	385 0 0
Ain rafters	11,358	.....
Blackwood, Khair and Kalamb rafters	50,647	136 0 0
Blackwood logs	774	.....
Junglewood logs and rafters	34,510	1,113 0 0
Total Timber ...	588,592	1,789 0 0
Firewood...	1,201tons.	41,392 15 2¼
Charcoal	.....	40 13 16
Bámbus	1,108,404	0 5 0
Ain bark...	.....	418 15 0
Mhowra flowers	.....	2,020 7 16¾
Hirdas	.....	1,010 4 13¾
Bábul bark	.....	4 12 0
Rice	.....	0 0 42¼
Kárvi ... ...Head-loads.	230	.....
Tahál for ráb ... ... Cart-loads.	89	.....
Do. ... ...Head-loads.	2,486	.....

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

Poona, 2nd November 1885.

FORM No. 62.

FORM No. 62.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally during the year 1884-85.

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
TIMBER.				
Balance at commencement of the year.				
North Thána .. Teak pieces ...	4,951			
Do rafters ...	7,213			
Junglewood logs ...	250			
Other rafters ...	2,287			
			14,721	
South Thána ... Teak pieces ...	9,995			
Injaili do. ...	907			
Plough shares ...	582			
			11,484	
West Khándesh. Teak rafters ...	22,349			
Do. logs ...	2,723			
Do. puttas ...	3,070			
Blackwood pieces ...	69			
Do. rafters...	100			
Batwad pieces ...	1,186			
			29,497	
East Khándesh. Teak rafters ...	15,421			
Tiwas do. ...	233			
Sissu do. ...	353			
Anjan do. ...	478			
			16,485	
Násik ... ... Teak rafters ...	38,210			
			38,210	
Ahmednagar ... Teak rafters ...	177			
			177	
Sátára... ... Teak rafters ...	1,109			
Ráywal logs ...	2,563			
			3,672	
Sholápur ... Bábul pieces ...	14			
Shewri do. ...	825			
			839	
Surat ... ... Dry teak	90			
Teak rafters ...	14,494			
			14,584	
Panch Mahals. Teak rafters ...	138			
			138	
Total Balance ...	.....	.....	1,29,807	

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
Removed by purchasers from Depôts.				
Teak rafters	80,386			
Teak logs	802			
Junglewood logs and rafters	466			
			81,654	
Sold locally.		Khandis.		
Teak rafters	4,80,426	155		
Teak logs	10,877	385		
Ain rafters	11,358	.. ...		
Blackwood, Kalamb, Kher, &c., rafters.	50,647	136		
Blackwood logs...	774	.....		
Junglewood logs and rafters	34,510	1,113		
			5,88,592	1,789
Lost or written off as useless.				
Teak rafters	140			
Junglewood logs and rafters	83			
			223	
Used by the Department.				
Teak rafters	287			
Junglewood logs and rafters	65			
			352	
Burnt by fire.				
Teak rafters	1,091			
Blackwood rafters	162		1,253	
Supplied to other Departments.				
Junglewood logs and rafters	252			
			252	
			6,72,326	1,789
Balance at close of the year.				
North Thána... Teak rafters ...	15,098		15,098	
South Thána .. Teak rafters ...	17,909			
Junglewood logs and rafters ...	1,351			
			19,260	

Received from the Forests in Depôts.				
Teak rafters	1,34,762			
Teak logs	774			
Junglewood logs and rafters ...	15,591			
			1,51,127	
Received from the Forests—		Khandis.		
Teak rafters	3,84,985	155		
Teak logs	8,240	385		
Ain rafters	11,358	.....		
Blackwood rafters	50,535	136		
Do. logs	774	.....		
Junglewood and rafters	23,833	1,113		
			4,79,725	1,789
			6,30,852	
Total ...	.....	.....	7,60,659	1,789

West Khándesh. Teak rafters ...	20,501			
Do. logs	58			
Junglewood logs ..	50			
			20,609	
East Khándesh Blackwood rafters .	248			
Junglewood logs and rafters ...	233			
			481	
Nagar ... .. Teak rafters ...	3,385			
			3,385	
Sátára... ... Teak rafters ...	400			
Junglewood logs,&c.	11,739			
			12.139	
Surat ... ... Teak rafters ...	17,361			
			17,361	
Total Balance ...	.....	.....	88,333	1,789
Total ..	.....	.....	7,60,659	1,789

FIREWOOD.

Balance at commencement of the year.				
North Thána... Firewood	.....	Khandis. 123		Khandis. 123
South Thána... Do.	.....	K. m. s. 2,158 8 0		K. m. s. 2,158 8 0
Násik .. ... Do.	.....	145 0 0		145 0 0
Nagar... ... Do.	.....	192 0 0		192 0 0
Sátára... ... Firewood	.....	145 0 0		
Charcoal	.....	6 0 0		151 0 0
Sholápur ... Firewood	.....	101 0 0		101 0 0
Surat ... ... Do.	.....	104 0 0		104 0 0
Panch Maháls . Do.	.....	2,299 0 0		2,299 0 0
Total Balance ...	.....	.....	.....	5,273 8 0
Received from Forests.				
Firewood	.....	K. m. s. 44,344 17 6¼		
Do.	.....	Tons. 1,412		
Charcoal...	.....	K. m. s. 74 27 23		
				Tons. 1412 K. m. s. 44,419 17 1¼
Total ...	.....	.....	.....	Tons. 1,412 K. m. s. 49,692 25 1¼

Sold locally.				
Firewood	.....	Tons. 1.201		
Charcoal...	.....	K. m. s. 40 13 16	Tons. 1,201	
Firewood	.....	41,392 15 2¼	K. m. s. 41433 0 18¼	
Used by the Department.				
Firewood	.....	K. m. s. 0 21 0		
Charcoal...	.....	0 6 0		
			0 27 0	
Balance at close of the year.				
South Thána ... Firewood	.....	K. m. s. 6,776 12 7	K. m. s. 6,776 12 7	
West Khándesh. Do.	.....	400 7 0	400 7 0	
East Khándesh. Do.	.....	10 0 0	10 0 0	
Ahmednagar ... Do.	.....	508 11 6	508 11 6	
Sátára... ... Firewood	.....	470 14 9		
Charcoal	.....	40 8 7	510 22 16	
Sholápur ... Firewood	.....	13 0 0	13 0 0	
Surat .. ... Do.	.....	40 0 0	40 0 0	
Do.	.....	Tons. 211	Tons. 211	
			Tons. 211 K. m. s. 8,258 25 11	
Total Balance ...	.....	.....		
Total ...	.....	.....	Tons. 1,412 K. m. s. 49,692 25 1¼	

FORM No. 62—*continued.*

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
BÁMBUS.				
Balance at commencement of the year.				
Received from the Forests—				
Bámbus	11,08,404	K. m. s. 0 5 0		
Bámbu branches	.....			
			11,08,404	K. m. s. 0 5 0
Total ...	.....	.....	11,08,404	0 5 0
OTHER MINOR PRODUCE.				
Balance at commencement of the year.				
South Thána... Bundles of Tahál ...	1,456	.....		
			1,456	
Received from the Forests—				
Tahál bundles	Cart-loads. 89 Head-loads. 1,030			
Ain bark	.....	K. m. s. 418 15 0		
Mowra flowers	.....	4,508 14 21½		
Hirda	.....	1,113 20 1¾		
Rice	.....	0 0 42¼		
Shikakái	.....	46 7 4		
Bábul bark	.....	4 12 0		
Kárvi head-loads	230	.....	Cart-loads. 89 Head-loads. 1,260	6,091 14 13½

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
Sold locally				
Bámbus	11,08,404	K. m. s. 0 5 0		
Bámbu branches	.....		11,08,404	K. m. s. 0 5 0
Balance at close of the year.				
Nil	.....	.....	.....	
Total ...	.....	.....	11,08,404	0 5 0
Sold locally.				
Tahál bundles	Cart-loads. 89 Head-loads. 2,486	K. m. s. 418 15 0		
Ain bark	.....	2,020 7 16¾		
Mowra flowers	.....	1,010 4 13¾		
Hirda	.....	0 0 2¼		
Rice	.....	4 12 0		
Bábul bark	.....		Cart-loads. 89 Head-loads. 2,716	K. m. s. 3,453 12 16¾
Kárvi head-loads	230	.....		
Used by the Department.				
Hirda	.....	0 7 1		0 7 1
Balance at close of the year.				
North Thána... Mowra	.....	0 20 12½		0 20 12½
South Thána... Mowra	.....	2,487 14 20¼		2,487 14 20¼
Násik ... ... Hirda	.....	0 25 14		0 25 14
Sátára... ... Hirda	.....	102 11 1		
Shikakái	.....	46 7 4		148 18 5
Total Balance ...	.....	.....	.....	2,657 14 25¼
Total ...	.....	.....	.....	6,091 14 13½

Total Balance ...

A. T. SHUTTLEWORTH,

Conservator of Forests, N. C.

FORM No. 63.

Forest Department, Northern Circle.

Timber and other Produce cut, collected and removed from the Forests by Consumers or Purchasers including Pasture, during the year 1884-85.

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realised during the year.	Remarks.
	Removed from Forests.			Rs.	Rs.	
	Timber.					
North Thána ...	Teak and Injaili rafters removed under share system .	7,629	...	8,435	8,435	
	Dead timber ... ... Carts.	4,352	...	4,352	4,352	II. (*a*) 12,787.
	Firewood.					
	Dead firewood, Cart-loads.	860	...	1,730	1,720	
	Do. do. Small carts.	14,719	...	14,719	14,719	
	Do. do. ... Kowl.	1313-35	...	631	631	At 12 annas per Khandi.
	Do. do. ...Khandis.	1530-14	...	574	574	„ 6 do. do.
	Do. do. Head-loads.	6,055	...	378	378	„ 1 anna per each.
	Do. do.	6,754	...	317	317	„ 9 pies each.
	Do. do.	5,260	...	164	164	„ 6 do.
	Bábul do. Cubic feet.	16,355	...	659	659	„ Rs. 4 per 100 cubic feet.
	Miscellaneous firewood ...	...	3	3	3	
	Bámbus.					II. (*b*) Rs. 19,165.
	Padhai and manwel bámbus.	229,220	...	6,863	6,863	
	Bundhis Cart-loads.	165	...	330	330	
	Do. ... Small carts.	5,219	...	5,219	5,219	
	Do. ... Head-loads.	4,771	...	298	298	
	Zittas ... Small carts.	2,754	...	689	689	
	Do. ... Head-loads.	632	...	43	43	
	Dried bámbus Cart-loads.	1,133	...	850	850	
	Do. do. Small carts.	496	...	186	186	
	Do. do. Kowl khandis.	229	...	54	54	
	Grazing.					II. (*c*) „ 14,532.
	Grass right sold	...	...	7,933	7,933	II. (*d*) „ 7,933.
	Minor Produce.					
	Karvi. Small and large carts.	824	...	442	442	
	Do. ... ... Head-loads.	1,881	...	118	118	
	Miscellaneous produce ...	...	...	4,701	4,701	
	Total Revenue under II. ...	...	...	59,678	59,678	II. (*e*) „ 5,261.
	Timber.					
South Thána ...	Teak ... ... Pieces.	60,760	...	22,005	22,005	
	Injaili ... ... „	1,182	...	132	132	
	Miscellaneous trees	3	...	4	4	II. (*a*) „ 22,141.
	Firewood.		K. m. s.			
	Firewood ... ... Pieces.	125	...	35	35	
	Do. ... ... Carts.	7,916	...	8,227	8,227	
	Do. ... Head-loads.	652	...	31	31	
	Firewood	...	29 4 0	21	21	
	Miscellaneous trees	18	...	13	13	
	Kolpat or dead firewood ...	...	29 2 16	5	5	II. (*b*) „ 8,332.
	Carried over ...	...	....	...	...	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
				Rs.	Rs.	
	Brought over ...	...	...	...	...	
	Removed from Forest—*continued.*					
	Bámbus.					
South Thána ...	Bámbus	81,955	...	2,688	2,668	
	Do. ... ... Carts.	465	...	542	542	
	Do. ... Head-loads.	1,772	...	110	110	
						II. (*c*) Rs. 3,340.
	Grazing.					
	Grass	...	...	1,970	1,970	
						II. (*d*) „ 1,970.
	Minor Produce.					
	Kárvi ... ... Carts.	690	...	383	383	
	Do. ... Head-loads.	1,822	...	114	114	
	Hirda right sold	...	...	66	66	
	Miscellaneous	...	...	2,810	2,810	
						II. (*e*) „ 3,373.
	Total, Revenue under II. ...	..	....	39,156	39,156	
	Timber.					
West Khándesh ...	Teak trees	...	...			
	Teak ... ...Pieces.	...	...	17,906	17,906	
	Dry timber ... Carts and Head-loads.	...	...			
						II. (*a*) „ 17,906.
	Firewood.					
	Firewood ... Cart-loads.	21,148	...			
	Charcoal ... ... „	16	...			
	Do. ... Head-loads.	72,981	...	6,988	6,988	
	Batwad ... Cart-loads.	3	...			
	Dead teak ... „ ...	120	...			
						II. (*b*) „ 6,988.
	Bámbus.					
	Bámbus	224,219	...			
	Do. Cart-loads, &c.	323	...	3,849	3,849	
	Do. ... Head-loads.	11,079	...			
						II. (*c*) „ 3,849.
	Grazing.					
	Grass and grazing	...	...	37,466	37,466	
						II. (*d*) „ 37,466.
	Minor Produce.					
	Thorns ... Cart-loads.	389	...			
	Fruits	...	...	8,616	8,616	
	Kankar	...	...			
	Rosha-grass	...	...			
						II. (*e*) „ 8,616.
	Total Revenue under II. ...	...	...	74,825	74,825	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realised during the year.	Remarks.
				Rs.	Rs.	
	Removed from Forests—*continued.*					
	Timber.					
East Khándesh ...	Teak ... ... Cart-loads.	20	...	64	64	
	Do. ... Bullock-loads.	200	...	62	62	
	Do. ... Buffaloe-loads.	152	...	47	47	
	Do. ... ...Head-loads.	1,879	...	412	412	
	Batwad ... ... Cart-loads.	1,130	...	1,164	1,164	
	Do. ... Bullock-loads.	1,755	...	346	346	
	Do. ... Buffaloe-loads.	65	...	20	20	
	Do. ... ... Head-loads.	14,679	...	473	473	
	Jotis	9	...	71	71	
	Do. sale proceeds					II. (*a*) Rs. 2,659.
	Firewood.					
	Firewood ... Cart-loads.	18,680	...	5,649	5,649	
	Charcoal ... „ ...	5	...			
	Do. ... Bullock-loads.	1,895	...			
	Do. ... Donkey-loads.	73	...			
	Do. ... ...Head-loads.	1,226	...			
	Bábul firewood	...	...			II. (*b*) „ 5,649.
	Bámbus.					
	Bámbus	73	...	1	1	
	Do.	1,091,547	...	10,931	10,931	
	Do. ... Head-loads.	27,490	...	3,437	3,437	
						II. (*c*) „ 14,369.
	Grazing.					
	Grass ... ... Cart-loads.	10,482	...	26,585	26,585	
	Do. ... ...Head-loads.	16	...			
	Grazing cattle	95,646	...			
	Sheep	32,094	...			
	Sale proceeds of grass ...	...	...			II. (*d*) „ 26,585.
	Minor Produce.					
	Manure ... ... Cart-loads.	22	...	183	183	
	Do. ... Donkey-loads.	44	...			
	Lime stones ... Cart-loads.	8	...			
	Stores ... ... Do.	433	...			
	Sale proceeds of mango fruits.	...	...			II. (*e*) „ 183.
	Total Revenue under II. ...	...	...	49,445	49,445	
	Timber.					
Násik	Batadi logs	1,167	...	21,143	21,143	
	Teak trees	655	...			
	Bábul do.	1,071	...			
	Khair do.	6	...			II. (*a*) „ 21,143.
	Carried over ...	...	...	...	...	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
				Rs.	Rs.	
	Brought over ...	...	...	...	...	
	Removed from Forests—*continued.*					
	Firewood.					
Násik	Batwad firewood	...	...	331	331	
	Bábul do.	...	...			
						II. (*b*) Rs. 331.
	Bámbus.					
	Bámbus	4,47,667	...	7,638	7,638	
	Do. ... Cart-loads	152	...			
	Do. ... Head-loads	11,231	...			
	Articles of bámbus	3,709	...			
						II. (*c*) ,, 7,638.
	Grazing.					
	Grass and Grazing	...	...	16,091	16,091	
						II. (*d*) ,, 16,091.
	Minor Produce.					
	Kárvi ... ... Head-loads.	...	...	3,077	3,077	
	Cart-loads of stones	...	...			
	Mango fruits	...	...			
	Catechu furnaces	...	...			
						II. (*e*) ,, 3,077.
	Total Revenue under II. ...	...	...	48,310	48,310	
	Timber.					
Ahmednagar ...	Teak Rafters	...	...	173	173	
	Dead wood do.	...	...			
	Jámbhul do.	...	...			
						II. (*a*) ,, 173.
	Firewood.					
	Dead wood, firewood... ...	...	...	226	226	
						II. (*b*) ,, 226.
	Bámbus.					
	Bámbus	39,371	...	394	394	
						II. (*c*) ,, 394.
	Grazing.					
	Grass and grazing	...	...	26,702	26,702	
						II. (*d*) ,, 26,702.
	Minor Produce.					
	Kárvi... ... Head-loads	1,279	...	735	735	
	Stones, &c. ... Cart-loads	...	...			
	Total Revenue under II.	...	...	28,230	28,230	II. (*e*) ,, 735.

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
				Rs.	Rs.	
	Brought over ...	...	...	...	...	
	Removed from Forests—*continued.*					
	Timber.					
Poona	Teak and other rafters ...	80	...	39	39	II. (*a*) Rs. 39.
	Firewood.					
	Firewood	...	450	1,684	1,684	II. (*b*) „ 1,684.
	Grazing.					
	Grass and grazing	...	...	45,456	45,456	II. (*d*) „ 45,456.
	Minor Produce.					
	Kárvi, fruits, &c.	...	...	258	258	II. (*e*) „ 258.
	Total Revenue under II. ...	...	...	47,437	47,437	
	Timber.					
Sátára	Teak rafters	163	...	64	64	II. (*a*) „ 64
	Firewood.					
	Dead wood	...	K. m. 98 6	331	331	II. (*b*) „ 331
	Bámbus.					
	Bámbus ... Head-loads	9,891	...	255	255	II. (*c*) „ 255
	Grazing.					
	Grass and grazing	...	...	31,256	31,256	II. (*d*) „ 31,256
	Minor Produce.					
	Head-loads of thorns and brushwood and cart-loads of stones	...	...	984	984	II. (*e*) „ 984
	Total Revenue under II. ...	...	...	32,890	32,890	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
				Rs.	Rs.	
	Brought over ...	...	...	...	...	
	Removed from Forests—*continued.*					
	Timber.					
Sholápur	Sandalwood	Small quantity	...	1	1	II. (*a*) Re. 1
	Firewood.					
	Dead fallen wood	...	77	217	217	II. (*b*) Rs. 217
	Do. of bábul, &c.					
	Grazing and Cutting.					
	Grass and grazing	...	...	22,521	22,521	II. (*d*) „ 22,521
	Minor Produce.					
	Quarrying stones	671 Carts	...	206	206	
	Gum	...	...			
	Fruits	...	...			
	Heaps of thorns	...	...			
	Earth	...	...			II. (*e*) „ 206
	Total Revenue under II. ...	...	...	22,945	22,945	
	Timber.					
Surat	Green teak	...	150	19,416	19,416	
	Kauty	...	166			
	Tannach	...	92			
	Khair	...	117			
	Haladwan	...	3			
	Beo	...	119			
	Sissum	...	136			
	Sadra	...	617			
	Crooked teak	...	3,000			
	Dry teak ... ... No.	Carts 716	191			
	Teak axles ... ... „	13,218	...			
	Poles ... ... „	14	...			II. (*a*) „ 19,416
	Firewood.					
	Firewood	...	...	9,420	9,420	
	Do. ... Head-loads	281	...			
	Charcoal ... ... No.	Carts. 28	...			
	Fire pieces ... ... „	4,790	...			
	Do. ... ... „	29	...			II. (*b*) „ 9,420
	Bámbus.					
	Bámbus	10,26,070	...	17,099	17,099	
	Do. ... Head-loads	5,317	...			
	Tokar bámbus	3,052	...			
	Bámbu pipes	9,497	...			
	Do. mats ... No.	2 Carts	...			
		3,899	...			II. (*c*) „ 17,099
	Carried over ...	...	...	...	...	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Khandis.	Amount of Revenue.	Amount actually realised during the year.	Remarks.
				Rs.	Rs.	
	Brought over ...	...	...	...	...	
	Removed from Forests—*continued.*					
	Grazing.					
Surat	Grass and grazing	...	...	1,403	1,403	II. (*d*) Rs. 1,403
	Minor Produce.					
	Catechu furnaces	400	...			
	Honey and wax	Mds. 321	...			
	Assindra leaves	8,74,245	...	14,950	14,950	
	Dead date and palm trees ...	485	...			
	Khaker leaves	Carts 359	...			
						II. (*e*) ,, 14,950
	Total Revenue under II. ...	...	...	62,288	62,288	
	Timber.					
Panch Mahals ...	Standing teak trees sold by auction			17,000	17,000	
	Miscellaneous teak trees ...	1,500	...	3,200	3,200	
	Ain trees	400	...	404	404	
	Mowra trees	25	...	53	53	
						II. (*a*) ,, 20,657
	Firewood.					
	Firewood	...	16,577	5,204	5,204	
	Charcoal	...	200	13	13	
						II. (*b*) ,, 5,217
	Bámbus.					
	Bámbus	24,566	...	390	390	
						II. (*c*) ,, 390
	Grazing.					
	Grass and grazing	...	...	8,469	8,469	
						II. (*d*) ,, 8,469
	Minor Produce.					
	Miscellaneous sale of forest produce	...	...	3,565	3,565	
						II. (*e*) ,, 3,565
	Total Revenue under II. ...	...	...	38,298	38,298	

Abstract of the Circle.

Timber	...	...	...	1,16,986	
Firewood and charcoal ...	...	...	...	57,562	
Bámbus	...	...	...	61,866	
Grass and grazing	...	...	...	2,25,853	
Minor produce	...	...	...	41,209	
Total Revenue of the Circle under II.	...	..	...	5,03,476	

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

FORM No. 64.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Revenue derived from, and Expenditure incurred on, Timber and other Produce sold to Public Departments from Depôts during the year 1884-85.

Name of Department.	Particulars of Supplies.	Amount supplied.		Rate.		Amount of Revenue.			Cost to Forest Department.			Comparision of Revenue and Expenditure.		Remarks.
		Number or Quantity.	Cubic Feet.	At.	Per.	Due.	Received.	Outstanding.	Timber Expenses under A I.	Quota of all other Expenditure chargeable against Timber, &c.	Total.	Surplus.	Deficit.	
						TIMBER.								
North Thána Division.						Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		
Thána Jail	Teak rafters	25	.....	In lump		73 8 0	73 8 0	...	6 0 0	11 4 0	17 4 0	56 4 0	...	
Do. do.	Do.	50	.....	Do.		93 8 0	93 8 0	...	7 4 0	11 4 0	18 8 0	75 0 0	...	
Salt and Customs	Do.	300	.....	Do.		1,848 0 0	1,848 0 0	..	30 0 0	155 0 0	185 0 0	1,663 0 0	...	
	Total ..	375	.....	...	...	2,015 0 0	2,015 0 0	...	43 4 0	177 8 0	220 12 0	1,794 4 0	...	
South Thána Division.				Annas.										
Public Works Department, Thána.	Teak rafters	40	.....	6	Rafter.	15 0 0	15 0 0	...	5 0 0	2 4 0	7 4 0	* 30 9 0	...	* Annas 10 on account of Kárvi have been shown separately under minor produce.
	Do. pieces	250	.....	In lump.		11 4 0	11 4 0							
	Small Teak pieces ..	700	.....	Do.		10 15 0	10 15 0							
	Total ...	990	.....	...	...	37 3 0	37 3 0	...	5 0 0	2 4 0	7 4 0	30 9 0	...	
West Khándesh Division.				Rs.										
Public Works Department.	Teak rafters	300	.....	30	100	90 0 0	90 0 0	...	.....	.....	.....	90 0 0	...	
	Do.	50	.....	50	100	25 0 0	25 0 0	...	.....	.....	.....	25 0 0	...	
	Total ..	350	.....	...	...	115 0 0	115 0 0	...	.....	.....	.....	115 0 0	...	
East Khándesh Division.														
Local Fund Department ...	Teak rafters	600	.....	30	100	180 0 0	180 0 0	...	18 0 0	.....	18 0 0	162 0 0	...	
Irrigation (Public Works Department).	Kahu	1	.....	...	...	2 0 0	2 0 0	...	.....	.....	.....	2 0 0	...	
Public Works Department..	Bábul trees	1	.....	...	...	8 2 0	8 2 0	...	.....	.....	.....	8 2 0	...	
	Total ...	602	.....	...	...	190 2 0	190 2 0	...	18 0 0	.....	18 0 0	172 2 0	...	
Ahmednagar Division.														
Public Works Department...	Teak rafters... ...	328	.....	At different		152 5 5	152 5 5	...	6 4 0	.....	6 4 0	146 1 5	...	
Do. Irrigation Branch.	Do.	399	.....	rates.		144 0 0	144 0 0	..	7 5 11	.....	7 5 11	136 10 1	..	
	Total ...	727	.....	...	...	296 5 5	296 5 5	...	13 9 11	.....	13 9 11	282 11 6	...	
Sátára Division.														
Public Works Department...	Ráywal rafters ..	70		At different rates.	...	22 8 0	22 8 0	...	2 12 0	.....	2 12 0	19 12 0	...	
Military do. ...	Do. do.	20	.....	Rs. 22	100	4 8 0	4 8 0	...	1 4 0	.....	1 4 0	3 4 0	...	
	Total ...	90	.....	...	...	27 0 0	27 0 0	...	4 0 0	.....	4 0 0	23 0 0	...	

Panch Mahdls Division.													
Salt Department ...	Teak posts	4,694	.....	Rs. 2	1	9,388 0 0	9,388 0 0	...	1,956 14 9	.....	1,956 14 9	14,129 6 11	...
	Do. rafters... ..	14,349	.....	40	100	5,739 9 8	5,739 9 8	...					
	Total ...	19,043	.... .	...	...	15,127 9 8	15,127 9 8	...	1,956 14 9	.....	1,956 14 9	14,129 6 11	...
	Total Timber ...	22,177	.....	...	...	17,908 4 1	17,908 4 1	...	2,040 12 8	179 12 0	2,220 8 8	16,547 1 5	...
West Khándesh Division.						BÁMBUS.							
Public Works Department...	Bámbus	40	. ...	0 1 11	Each.	4 12 8	4 12 8	...	.....	.....	.....	4 12 8	...
Násik Division.													
Public Works Department...	Bámbus	50	.....	Re. 1	100	0 8 0	0 8 0	...	... .	.....	.....	0 8 0	...
Panch Mahdls Division.													
Salt Department	Bámbus	19,175	.....	Rs. 5	100	958 12 0	958 12 0	...	.....†	.....	.....	.....†	...
	Total Bámbus ...	19,265	.....	...	...	1,963 0 8	1,963 0 8	...	.....	.....	.....	5 8 4	...
Násik Division.						FIRE WOOD.							
Public Works Department ..	Firewood	...	Khandis. 50	Re 1	Khandi.	50 0 0	50 0 0	...	.....	.....	.....	50 0 0	...
Sátára Division.													
Public Works Department...	Firewood	...	Maunds. 21	Anna. 1	Maund.	1 5 0	1 5 0	...	0 8 0	.....	0 8 0	0 13 0	...
	Charcoal	...	Lbs. 9 7	4	Do.	2 5 0	2 5 0	...	1 12 0	... ..	1 12 0	0 9 0	...
	Total ...	...	K. md. lbs. 1 2 7	...	...	3 10 0	3 10 0	...	2 4 0	.....	2 4 0	1 6 0	...
	Total firewood ...	..	K. md. lbs. 51 2 7	...	...	53 10 0	53 10 0	...	2 4 0	.. ...	2 4 0	51 6 0	...
South Thána Division.						MINOR PRODUCE.							
Public Works Department, Thána.	Kárvi.	Head-loads. 10	.....	Anna. 1	Head-load.	0 10 0	0 10 0	...	.....‡	.....	‡	‡	...
West Khándesh Division.													
Public Works Department, Thána.	Thorns ...Cart-loads.	150	. ....	Pies. 6	Each.	4 11 0	4 11 0	...	.....‡	.....	‡	4 11 0	...
	Total Minor Produce.	160	.....	...	...	5 5 0	5 5 0	...	.....	.....	.....	4 11 0	...
											GRAND TOTAL ..	16,608 10 9	...

† The expenditure and surplus on account of bámbus have been shown in the two items of Rs. 1,956-14-9, and 14,129-6-11.

‡ *Vide* remark against surplus Rs. 30-9-0 under timber.

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

FORM No. 65.

FOREST DEPARTMENT, NORTHERN CIRCLE.

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1884-85.

Description of Timber and other Produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Khandis, Maunds and Sers.	Value.	Number.	Khandis, Maunds and Sers.	Value.	In favour of the year.	Against the year.	
TIMBER, FUEL AND OTHER FOREST PRODUCE.			Rs.			Rs.	Rs.	Rs.	
North Thána.									
Teak pieces	4,971	....	7,353	..	....	4,401	..	2,952	
Do. rafters	7,213	....		15,098	....				
Junglewood logs	250	....		..	....				
Other rafters	2,287	....		..	....				
Firewood	....	123 0 0		..	0 20 12½				
Mhowra flowers	....	....	..	..					
Total	14,721	123 0 0	7,353	15,098	0 20 12½	4,401	..	2,952	
South Thána.									
Teak pieces	9,995	....	5,856	..	....	23,452	17,596	....	
Injaili pieces	907	....		..	....				
Plough shares	582	....		..	....				
Firewood	....	2,158 8 0		..	6,776 12 7				
Tahál bundles, No.	1,456	....		..	....				
Teak rafters	....	....		17,909	....				
Junglewood logs and rafters	....	....	..	1,351	....				
Mhowra flowers	....	....	..	..	2,487 14 20½				
Total	12,940	2,158 8 0	5,856	19,260	9,293 26 27½	23,452	17,596	....	
West Khándesh.									
Teak rafters	22,349	....	11,203	20,501	....	2,238¼	..	8,964¾	
Teak logs	2,723	....		58	....				
Do. puttas	3,070	....		..	....				
Blackwood pieces	69	....		..	....				
Do. rafters	100	....		..	....				
Batwad pieces	1,186	....		..	....				
Junglewood logs and rafters	....	....	..	50	....				
Firewood	....	....	..	..	400 7 0				
Total	29,497	....	11,203	20,609	400 7 0	2,238¼	..	8,964¾	
East Khándesh.									
Teak rafters	15,421	....	6,130	..	....	160	..	5,970	
Tiwas do.	233	....		..	....				
Sisu do.	353	....		248	....				
Anjan do.	478	....		..	....				
Junglewood logs and rafters	....	....		233	....				
Firewood	....	....		..	10 0 0				
Total	16,485	....	6,130	481	10 0 0	160	..	5,970	
Násik.									
Teak rafters	38,210	....	5,447	..	....	11	..	5,436	
Firewood	....	145 0 0		..	....				
Hirda	....	....		..	0 25 14				
Total	38,210	145 0 0	5,447	..	0 25 14	11	..	5,436	
Ahmednagar.									
Teak rafters	177	....	253	3,385	....	471	218	....	
Firewood	....	192 0 0		..	508 11 6	....	..	....	
Total	177	192 0 0	253	3,385	508 11 6	471	218	....	
Sátára.									
Teak rafters	1,109	....	708	400	....	2,000	1,292	....	
Ráywal logs	2,563	....		..	....				
Junglewood logs and rafters	....	....		11,739	....				
Firewood	....	145 0 0		..	470 14 9				
Charcoal	....	6 0 0		..	40 8 7				
Hirda	....	....		..	102 11 1				
Shikakái	....	....		..	46 7 4				
Total	3,672	151 0 0	708	12,139	659 12 21	2,000	1,292	....	
Sholápur.									
Bábul pieces	14	....	156	..	....	12	..	144	
Shewri do.	825	....		..	....				
Firewood	....	101 0 0		..	13 0 0				
Total	839	101 0 0	156	..	13 0 0	12	..	144	
Surat.									
Dry teak	90	....	4,862	..	....	34,382	29,520	....	
Teak rafters	14,494	....		17,361	....				
Firewood	....	104 0 0		..	40 0 0 211 tons.				
Total	14,584	104 0 0	4,862	17,361	40 0 0 K. 211 Tons.	34,382	29,520	....	
Panch Mahális.									
Teak rafters	138	....	2,790	..	....	....	..	2,790	
Firewood	....	2,299 0 0		..	....	....	..		
Total	138	2,299 0 0	2,790	..	....	....	..	2,790	

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,

FORM No. 65 B.

Forest Department, Bombay.

Abstract showing the Value of live and dead Stock for the year 1884-85.

Description of live and dead Stock.	On hand at Commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic Feet.	Value.	Number.	Cubic Feet.	Value.	In favour of the year.	Against the year.	
North Thána Division.			Rs.			Rs.	Rs.	Rs.	
Tungar Bungalow	1	...	1,200	1	...	1,200	...	...	
Náka house at Mándvi	1	...	250	1	...	250	..	...	
Sets of scales and weights	15	...	1,395	15	...	1,395	...	...	
Safes (Iron)	2	...	107	2	...	107	...	...	
Office tent	1	...	273	1	...	273	...	...	
Small Rowti	1	...	95	1	...	95	...	...	
Small boats with sails	2	...	236	2	...	236	...	...	
Theodolites	2	...	240	2	...	240	...	...	
Parallel rulers	2	...	24	2	...	24	...	...	
Boxes of plotting scales	4	...	23	4	...	23	...	...	
Circular protactors	2	...	30	2	...	30	...	...	
Cross staves	4	...	13	4	...	13	...	...	
Chains	8	...	21	8	...	21	...	...	
Total	...	...	3,907	...	...	3,907	...	...	
West Khándesh Division.									
Leather petárás	4	...	27	4	...	27	...	...	
Brass seal ..	1	...	6	1	...	6	...	...	
Teak boxes	9	...	150	12	...	191	41	...	
Office Rowti	1	...	85	1	...	85	...	...	
Wooden table	1	...	12	1	...	12	...	...	
Carpets	4	...	33	4	...	33	...	...	
½ wooden table piece	1	...	9	1	...	9	...	...	
Total	...	...	322	...	...	363	41	...	
East Khándesh Division.									
Camping table	1	...	18	2	...	47	29	...	
Wooden boxes	2	...	22	5	...	36	14	...	
Office tent	...	...	...	1	...	248	248	...	
Rowti	1	...	100	1	...	100	...	...	Is not saleable. This is the old office Rowti.
Total	...	...	140	...	...	431	291	...	
Násik Division.									
Office tent	1	...	246	2	...	300	54	...	
Wooden treasure boxes	...	...	...	12	...	120	120	...	
Chubb's treasure box	...	...	...	1	...	30	30	...	
Total	...	...	246	...	...	450	204	...	
Poona Division.									
Office tent	1	...	273	1	...	273	...	...	
Treasure chests	11	...	91	11	...	91	...	...	
Total	12	...	364	12	...	364	...	...	
Sholápur Division.									
Camp table pieces	3	...	14	3	...	14	...	...	
Scale with weights	1	...	25	1	...	25	...	...	
Office tent	1	...	100	1	...	100	...	...	
Mathematical instrument box	1	...	30	1	...	30	...	...	
Rubber stamp	1	...	6	1	...	6	...	...	
Watering pump	1	...	8	1	...	8	...	...	
Total	...	...	183	...	...	183	...	...	

FORM No. 65 B.—*continued.*

Description of live and dead Stock.	On hand at Commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic Feet.	Value.	Number.	Cubic Feet.	Value.	In favour of the year.	Against the year.	
Sátára Division.			Rs.			Rs.	Rs.	Rs.	
Bungalow at Málcolmpeth ...	1	...	700	1	...	700	...	...	
Pall with double fly	1	...	245	1	...	245	...	...	
Iron weights of 56 lbs.	4	...	28	4	...	28	...	...	
Iron balance with chains, &c. ...	1	...	170	1	...	170	...	...	
Couch	1	...	10	1	...	10	...	...	
Iron pot	1	...	8	1	...	8	...	...	
Tables	7	...	41	9	...	54	13	...	
Guns	3	...	30	3	...	30	...	...	
Swords	22	...	176	22	...	176	...	...	
Treasure chests	15	...	105	15	...	105	...	...	
Office box	...	...	...	1	...	9	9	...	
Box for keeping maps	1	...	6	1	...	6	...	...	
Box of drawing materials ...	1	...	6	1	...	6	...	...	
Total ...	...	...	1,525	...	...	1,547	22	...	
Surat Division.									
Sextant with stand	1	...	150	1	...	150	...	...	
False horizon	1	...	40	1	...	40	...	...	
Prismatic compass and stand ...	1	...	45	1	...	45	...	...	
50 feet brass chain	1	...	10	1	...	10	...	...	
Brass measuring gaz	1	...	6	1	...	6	...	...	
Road measurer	1	...	50	1	...	50	...	...	
Iron safe with two keys	1	...	75	1	...	75	...	...	
Copper barrels for powder ...	1	...	60	1	...	60	...	...	
Teak almerah for records ...	1	...	49	1	...	49	...	...	
Do. small do.	1	...	20	1	...	20	...	...	
Teak wooden chest	1	..	20	1	...	20	...	...	
Do. do.	1	...	14	1	...	14	...	...	
Teak timber chest	1	...	11	1	...	11	...	...	
Office tent, 12 feet, with carpet...	1	...	246	1	...	246	...	...	
Writing tables	2	...	30	2	...	30	...	...	
Pumps	2	...	198	2	...	198	...	...	
Nartons' pumps	3	...	914	3	...	914	...	...	
Sets of number stamps from 1 to 10	5	...	121	5	...	121	...	...	
Brass parallel ruler	1	...	26	1	...	26	...	...	
Teak wood box	1	...	18	1	...	18	...	...	
Do. small	1	...	6	1	...	6	...	...	
Branding axes	12	...	81	12	...	81	...	...	
Total ...	...	...	2,190	...	...	2,190	...	...	
South Thána Division.									
Proportional compass	1	...	32	1	...	32	...	...	
Tin box	1	...	40	1	...	40	...	...	
Office Rowti with carpet ...	1	...	273	1	...	273	...	...	
Teak boxes	6	...	108	6	...	108	...	...	
Treasure chest	1	...	5	1	...	5	...	...	
Do. do.	1	...	6	1	...	6	...	...	
Blackwood box	1	...	5	1	...	5	...	...	
Teak boxes	3	...	19	3	...	19	...	...	
Scales with iron chains	3	...	18	3	...	18	...	...	
Total ...	...	...	506	...	...	506	...	...	
Ahmednagar Division.									
Teak boxes	2	...	12	2	...	12	...	...	
Bámbu boxes	2	...	11	2	...	11	...	...	
Carpet	1	...	22	1	...	22	...	...	Worn out.
Chair (Blackwood)	1	...	5	1	...	5	...	...	
Colour box, 3rd size	1	...	21	1	...	21	...	...	
Scale with weights	1	...	15	1	...	15	...	...	
Bámbu boxes	2	...	12	2	...	12	...	...	
Carried forward ...	...	...	98	...	...	98	...	...	

FORM No. 65 B.—*continued.*

Description of live and dead Stock.	On hand at Commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic Feet.	Value.	Number.	Cubic Feet.	Value.	In favour of the year.	Against the year.	
			Rs.			Rs.	Rs.	Rs.	
Brought over ...	...	...	98	...	...	98	...	...	
Ahmednagar Division—continued.									
Pentagraph	1	...	112	1	...	112	...	...	
Compass box	1	...	15	1	...	15	...	...	
Wooden shelf for records ...	1	...	15	1	...	15	...	...	
Teak table bench for drawing purposes	1	...	12	1	...	12	...	...	
Deal drawing board	1	...	9	1	...	9	...	...	
Measuring chain and pegs, 10 ...	1	...	6	1	...	6	...	...	
Teak boxes for money with iron chains and handles	11	...	110	11	...	110	...	...	
Teak boxes for records	11	...	55	11	...	55	...	...	
Sleeping pal, 12 × 12, double fly ..	1	...	246	1	...	246	...	...	
Bámbu boxes	2	...	12	2	...	12	...	...	
Anglo-American rubber stamp ...	1	...	15	1	...	15	...	...	
Bámbu boxes	...	...	...	2	...	12	12	...	
Teak boxes	...	...	...	2	...	16	16	...	
Camp tables	...	...	...	2	...	20	20	...	
Desks (Blackwood)	...	...	...	2	...	14	14	...	
Travelling chair	...	...	...	1	...	5	5	...	
Camp table (Blackwood) ...	...	...	...	1	...	10	10	...	
Desk do.	...	...	...	1	...	7	7	...	
Jájam	...	...	...	1	...	12	12	...	
Anglo-American rubber stamp ...	...	...	...	1	...	7	7	...	
Jájam	...	...	...	1	...	6	6	...	
Office-room, Range Forest Officer, Karjat	1	...	214	1	...	214	...	...	
Hirda Depôt at Shinganwádi ...	1	...	25	1	...	25	...	...	
Rest-house at Sháhápur, Táluka Nagar	...	...	...	1	...	45	45	...	
Rest-house at Pratáppur, Táluka Sangamner	...	...	...	1	...	20	20	...	
Rest-house at Kokamthán, Táluka Kopargaon	...	...	...	1	...	25	25	...	
Gadis bolser	1	...	9	1	...	9	...	...	
Pieces of camp table	2	...	14	2	...	14	...	...	
Box for keeping furniture ...	1	...	8	1	...	8	...	...	
Do. for keeping maps ...	1	...	10	1	...	10	...	...	
Boxes for keeping maps	5	...	40	5	...	40	...	...	
Rubber seal	1	...	15	1	...	15	...	...	
Desks	2	...	14	2	...	14	...	...	These articles are with the Forest Settlement Officer and the Special Forest Duty Mámlatdár.
Do. for keeping sanads, &c. ...	1	...	6	1	...	6	...	...	
Jájam	1	...	20	1	...	20	...	...	
Pieces of office table	2	...	16	2	...	16	...	...	
Large gunny bag	...	...	...	1	...	10	10	...	
Camp table	...	...	...	1	...	15	15	...	
Writing table	...	...	...	1	...	6	6	...	
Box	...	...	...	1	...	6	6	...	
Jájams	...	...	...	2	...	15	15	...	
Curtain of sack cloth	...	...	...	1	...	7	7	...	
Total ...	...	...	1,096	...	...	1,354	258	...	
Panch Maháls Division.									
Office Jájam	1	...	15	1	...	15	...	...	Old one prepared in 1883.
Native spades	48	...	24	48	...	24	...	...	Old ones; some are broken.
Crow bars	14	...	42	14	...	42	...	...	
Powdas	49	...	34	49	...	34	...	...	
Large and small boxes	10	...	85	10	...	85	...	...	
Office boxes	3	...	25	3	...	25	...	...	Two boxes are quite useless.
Tapes	13	...	64	13	...	14	...	...	
Rest-houses and Depôts	3	...	153	3	...	153	...	...	
Carried forward	...	...	...	...	...	...	...	...	

FORM No. 65 B.—*continued.*

Description of live and dead Stock.	On hand at Commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic Feet.	Value.	Number.	Cubic Feet.	Value.	In favour of the year.	Against the year.	
			Rs.			Rs.	Rs.	Rs.	
Brought over ...	...	...	...	...	...	...	...	...	
Panch Mahâls Division—contd.									
Bungalow	1	...	8,200	1	...	8,200	...	...	
Office Rowti with carpet... ...	1	...	273	1	...	273	...	...	
Table pieces	4	...	40	4	...	40	...	...	
Chair	4	...	12	4	...	12	...	...	Not in good order.
Book shelf	1	...	14	1	...	14	...	...	
Wooden stamps	13	...	39	13	...	39	...	...	
Rubber stamps	2	...	20	2	...	20	...	...	One brass stamp is useless.
Brass do.	2			2	...				
Gádis and takyás...	6	...	30	6	...	30	...	...	
Theodolite with chain, color box, and ruler, &c.	1	...	164	1	...	164	...	...	Transferred from Survey Department.
Total ...	...	...	9,184	...	...	9,184	...	...	
Direction.									
Office tent, 14 × 14	1	...	432	1	...	432	...	...	
Office Rowti, ...	1	...	95	1	...	95	...	...	
Prismatic compass and stand, complete	1	...	70	1	...	70	...	...	
Planimeter	1	...	58	1	...	58	...	...	
Total ...	...	...	655	...	...	655	...	...	
Net difference in favour of the year								Rs. 816.	

Poona, 2nd November 1885.

A. T. SHUTTLEWORTH,
Conservator of Forests, N. C.

No. 100 OF 1886.

REVENUE DEPARTMENT.

Kaira Districts, Camp Thásra, 12th January 1886.

The Forest Department is to be congratulated on the revenue of the year having been "the largest on record." In the summary under paragraph 177, it is presumed that the debits against "revenue from shared forests" and "duty on foreign timber" represent cost of *Establishment* for the collection of these items. Under the heading "grass and other minor products," I. (*e*), the expenditure considerably exceeds the receipts!

2. Some explanation should have been afforded of the fact that the 3 forest districts of this Division are the only ones in the Northern Circle in which there have been no "selection fellings"—*vide* Form No. 59.

3. (*Paragraph 19*).—The enquiry into the sales of teak under Ellis' Rules proved that, instead of the gigantic frauds and alarming sacrifice of Government revenue supposed to have resulted from these sales, very fair prices were obtained in 1865 and subsequent years, and that the accounts respecting these transactions were not as inaccurate and unintelligible as have been supposed. I should be glad to see these Rules again introduced, provided the pass system were made applicable to timber from private holdings.

4. (*Paragraph 46*).—The concessions here noticed, the most important of which have been granted during the year under report, are of great value to the people, and I think it greatly to be regretted that the Conservator did not see his way to support the recommendation formerly submitted by me in this direction.

5. Government are aware of my views regarding the gurcharan lands set apart by the survey; and I would only observe here, with reference to the orders quoted in the 2nd clause of paragraph 46, that, in my opinion, the grass in such lands should never, *under any circumstances*, be sold by auction.

6. (*Paragraph 60*).—In my humble opinion the introduction of the new system of accounts is to be regretted. Time which should be spent by the Divisional Forest Officers in their saddles and in inspection, is now given up to laborious and responsible desk work. I should be glad to see a return to the old system. The time of the trained officers, who are now being sent to this country, is too valuable to be spent in simple clerical duties which the ordinary Account Establishment could perform—probably at less cost.

7. (*Paragraph 62*).—The number of prosecutions in Thána has decreased considerably, as has also the measure of success attending these.

8. (*Paragraph 65*).—The Conservator is correct in reporting that there has been much illegal cutting. I have only lately submitted correspondence showing the cutting of 3,500 trees—mostly teak—in 10 villages, and such cuttings have not been confined to one táluka. I am not prepared to agree with the Conservator that such cuttings are "beyond the control" of his Department; on the contrary, it appears difficult to escape from the conclusion that the Preventive Establishments are either insufficient in strength, or else inefficient from want of supervision.

9. It is scarcely necessary to point out that the thefts of teak I have referred to, have nothing to do with "cutting for ráb" mentioned in clause (*a*) of the paragraph under notice; but with regard to the Conservator's remarks on the application of Section 43 of the Land Revenue Code, I would observe that this officer does not suggest *any other remedy* than that adopted. The latter might have been more successful, had it received more support from the Conservator. I will inquire the reason why so many cases have remained undisposed of, but meanwhile I must express my conviction that the action taken has had a healthy influence.

10. Regarding the cuttings for firewood, clause *(b)*, Section 65, it is only fair to recollect *how* it was that "the real dead wood lying in the forests was very soon cleared out." I will let Mr. Shuttleworth himself answer this question. In paragraph 4 of his No. 3004, of the 28th August last, he writes :—

"The Revenue and Forest Officers, who met at Thána in the month of November 1883, recommended the system of permits, as experience had shown the contract system, which had been given a trial by the Forest Commission of 1882, to be most objectionable. The contractors had employed gangs of men all over the district to remove from the forests every stick they could lay hands on. Even roots of trees were dug up, and wholesale manufacture of dead-wood took place. Almost all the material was sent off to Bombay, and the people of the district complained that they were starved of firewood."

Is it unreasonable, therefore, to attribute the scant wood supply to the inefficient supervision exercised over the dead-wood contractors a few years ago?

11. I entirely concur in the remarks in clause *(c)*, paragraph 65. The railway and several large roads pass through tálukás in which forests, belonging to Government, are mixed up with those of private persons and with lands on which the timber has been sold to the occupants. So long as teak from the latter forests and lands is not required to obtain a pass, it is evident that no efficient protective arrangements are possible.

12. (*Paragraph 74*).—I should be glad to believe that "there is absolutely no foundation for the supposition that fires have been the work of malicious incendiaries." This is *not* my own opinion, and the reason assigned by the Conservator simply amounts to an assertion that the people of Thána do not conceive that they have any grievances to complain of! I have frequently pointed out that the complaints of the people have only been intensified by this disposition of the Conservator to treat them as imaginary.

13. It will probably be interesting and suggestive to compare the proportionate areas destroyed by fire in *Thána* and in the adjoining district of *Kolába*.

14. In districts in which so much loss is experienced by forest fires, as North Thána and Surat, it would probably be worth while to spend a larger sum in protection. In the former district, the total amount spent for this purpose during the last two years was Rs. 26 : in the latter, nothing at all!

15. (*Paragraph 175*).—I am very glad to observe some increase in the free grants of wood, and to read the Conservator's opinion that such grants command his sympathy. I feel, however, very strongly that in such petty matters as the grant of Rs. 10 or Rs. 15 worth of wood to a poor agriculturist, who has lost his house by fire, Government should allow more discretion to their officers. No power is now granted to the Conservator or Commissioner. I should be glad to see discretionary power—say up to Rs. 100 per annum—given to Divisional Forest Officers and Assistant Collectors. I agree generally in the Conservator's remarks about free grants in such localities as the Surat coast villages, and *I have already acted* on this opinion.

16. It will, I hope, be understood that nothing I have written in this note is intended to detract from the commendation due to the Conservator, Northern Circle, for his zeal and devotion to his work. But, as I have already ventured to observe in another communication, I consider the area under the Northern Circle too large to be efficiently controlled by any single officer. The want of personal supervision has this year been evidenced by the unsatisfactory state of forest affairs in Surat, as exposed by the Collector. The late Divisional Forest Officer there was an officer specially requiring supervision, and yet I believe I am correct in saying that the Dang portion of that charge had not been visited by the Conservator for several years until this season.

17. In conclusion I would suggest for the consideration of Government that, in future annual reports, some account may be given of the conduct of the subordinate officers of the Department, with particulars of the numbers dealt with criminally (if any), dismissed, suspended, or fined.

G. F. SHEPPARD,
Commissioner, N. D.

No. $\frac{R.}{93}$ OF 1886.

FROM

E. P. ROBERTSON, ESQUIRE,
Commissioner, C. D.;

To

THE SECRETARY TO GOVERNMENT,
Revenue Department.

Sátára District, Camp Helwak, 8th January 1886.

SIR,

I have received from the Conservator of Forests, N. C., a copy of his Forest Administration Report for the year 1884-85 and have the honor to submit the following remarks in reference thereto.

2. (*Paragraphs 3, 4 and 5*).—Under the circumstances explained, it would be well that some new distribution of charges should be made. Without further information, however, I am not prepared to recommend the Conservator's proposals for sanction, as the West Khándesh District still appears unduly large, and he might be asked whether he could not suggest an arrangement under which the charges in East and West Khándesh could be made more equal.

3. (*Paragraphs 12 and 83*).—It is satisfactory that the Conservator can report marked improvement in the quality and production of grass. This is a most important point, as the Government forests cannot but be considered as our most valuable fodder reserves in years to come. I fully concur in the remarks in the Conservator's 83rd paragraph, while I also consider Mr. Ommanney's remarks, quoted in paragraph 85, as requiring very careful consideration and a limitation of grazing privileges absolutely necessary if the people are ever to have any fodder from the forests.

4. The work of demarcation and settlement, as also that of acquiring, by purchase or exchange, land required for forests, has in the districts of the Central Division made very considerable and satisfactory progress. Another year ought nearly to see the completion of all the demarcation work, and as soon as that has been completed, and exchanges and purchases made as far as is practicable, all interference with any description of trees on rayats' occupied lands should be discouraged. People should be allowed to feel that our forest settlements are final. In the Central Division there is not much teak, blackwood or sandalwood on such land, and, therefore, as far as this Division is concerned, I would recommend the disposal of the Government Royalty rights over such trees being disposed of at a merely nominal rate.

5. (*Paragraph 66*).—The question of the privileges to be granted to Bhils and others is now again under consideration, and will shortly be submitted to Government.

6. (*Paragraph 88*).—The Forest Department should be required to make more progress in planting cactus hedges round the forest reserves, especially in the plains where the reserves adjoin cultivated lands.

7. (*Paragraph 94*).—I can support the Conservator's assertion that a noticeable improvement has taken place in the closed forests. That improvement, however, is not, I consider, up to the mark Government has a right to expect. Much more might, I think, be done in the way of broad-casting, and especially in dibbling in seeds on favorable spots where protection is given by the scrub or strong grasses. There is very little use whatever in taking up land and converting it into reserves, if more is not done in the way of reboisement, both by ploughing, dibbling, and broad-casting. Very trifling sums are now spent on this most important work. It is to be hoped, when the expenditure on demarcation, settlement and purchase of lands decreases, far larger and substantial grants will be made for reboisement under all the different kinds of methods known to be of value.

8. (*Paragraph 109*).—I consider that very much more might be done as regards cutting of creepers. I am now in the Pátan Táluka, and I find that

much of the most promising young forest growth is being absolutely destroyed through sheer neglect of the clearing away of creepers and useless undergrowth. If the Forest Department had only a few men who could superintend the work properly so as to see that no damage to young growth was done, they might, I imagine, get people to do the work of clearing at no cost if they were allowed to remove and keep the material cut away.

(8).—Experiments with Exotic Trees.

9. (*Paragraph 113*).—This is a splendid tree and I find grows well, even at Mahábaleshvar. It is, I believe, as regards its wood, equal to teak and should be planted out both carefully and extensively. It grows most rapidly in good soil and will repay the Forest Department for all care and expenditure. As far as I can learn, little or nothing has been done to secure a systematic and useful planting of this tree.

10. (*Paragraph 115*).—One of the most valuable trees Government can grow in its black-soil reserves. It is slow growing in hard moorum soil, but in good soil requires attention only for the first year and then grows rapidly in such soil. Its pods are most valuable, fetching upwards of £16 a ton. It bears pods most abundantly, and in favourable situations bears two crops in the year. If cut down for firewood, no tree sends up shoots from the old stools more rapidly. A large tree, I had occasion to cut down, sent up in two years such strong shoots that they almost at the end of that time equalled the old tree.

11. (*Paragraph 116*).—This may be seen all over Poona it is true, but little or nothing has been done to extend its cultivation. It not only grows rapidly from the old stools, but if cut down sends up young plants for fifty paces all round, soon forming a dense, strong undergrowth of jungle. It would be most valuable as a shrub for ráb plantations planted out and taken care of for a couple of years—say about 6 plants to the acre, the land would soon all be densely covered, and the plant could not be got rid of.

I have the honor to be,
Sir,
Your most obedient Servant,

E. P. ROBERTSON,
Commissioner, C. D.

SOUTHERN CIRCLE.

No. of 1885-86.

From

Colonel W. PEYTON,

Conservator of Forests, Southern Circle;

To

J. NUGENT, Esquire,

Secretary to Government, Revenue Department,

Bombay.

Conservator's Office, S. C.,

Camp *1885.*

Sir,

I have the honour to submit herewith the Forest Administration Report of the Southern Circle for 1884-85, together with its subsidiary statements as per list appended.

I have the honour to be,

Sir,

Your most obedient, Servant,

W. PEYTON, Colonel,

Conservator of Forests,

Southern Circle.

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INDEX.

SOUTHERN CIRCLE.

1884-85.

Chapter.	Subject.	Paras.
	Introduction—	1—5
I.	Areas and Boundaries	6—40
II	Surveys...	41—43
	Working plans	44—46
	Annual plans of operations	47—52
III	PROTECTION AND IMPROVEMENT—	
	1. Establishments	53—58
	2. Protection and Breaches of the Forest Rules	59—65
	3. Forest fires	66—68
	4. Grazing and fencing	69—77
	5. Natural reproduction, ...	78—85
	6. Artificial reproduction, plantations and cultural operations ...	86—100
	7. Cutting of creepers, &c.	101 & 102
	8. Experiments and exotic trees	103—105
	9. Communications and buildings	106—113
IV	YIELD AND WORKING—	
	Working of the Forest Department and statement showing the yield of the several divisions—	
	(1) Through departmental agency.	
	(2) Do. removal of produce by purchasers on the payment of fees.	
	(3) Do. for export on the payment of fees	
	(4) Do. free grants of forest produce	114 & 115
	Remarks regarding the increase and decrease of yield of the year compared with that of the previous one in the several divisions	116 to 145
	(5) Summary of forest produce removed from the forests under the various systems in vogue	146
	(6) Imports and exports of forest produce	147 & 148
	Statement showing logs and tons of timber sold and remaining in stock at the end of the year, and treatment as outstanding of the value of timber supplied the School of Industry, Ratnágiri	149 & 150
	Departmental operations under a system of clean cuts and coppice under standard	151
	Minor produce (Myrobalans) collected departmentally in the Kánara and Belgaum Divisions	152—155
	Kánara Saw Mills at Kannigeri and the new machinery purchased for cutting up teak sleepers	156—165
	Statement showing the rates realized at auction sales for large timber held at the depôts	166—169
V	Financial Results	170 to 186
VI	GENERAL REMARKS—	
	Description of the Conservator's tour and movements made ...	187 to 221
	Recognition of officers' services generally	222 to 230

FOREST ADMINISTRATION REPORT

OF THE

SOUTHERN CIRCLE, BOMBAY PRESIDENCY,

FOR THE OFFICIAL YEAR 1884-85.

INTRODUCTION.

Financially, the most important event of the year under report is the further large increase of the revenue, which exceeds that of last year by no less than Rs. 3,87,270 gross revenue, and in surplus by Rs. 2,12,904.

2. In an administrative point of view, however, the great event of the year is the introduction of the new system of accounts as laid down in the Forest Department Code of the Government of India.

3. The change as respects the latter is, as yet, but imperfectly understood, more especially as regards the timber returns, and it has, therefore, given rise to much difficulty and delay in the preparation and submission of this report.

4. It is too soon to form an opinion of the merits or demerits of the new system inaugurated, only it may be said now that it takes up more of the officers' time from their field-works than is quite desirable, and that the subordinate staff, both as respects the number and the salaries allowed, is insufficient to work it in this Circle in a manner to do credit to such an elaborate system.

5. Another event also which has to be chronicled here is the sanction accorded by the Government of India to the re-organization proposals on account of the Subordinate Protective and Office Establishments submitted with Government Resolutions Nos. 8329 and 1672, dated the 22nd October 1884 and 26th February 1885 respectively. Effect, however, was not given to the measure within the year, but it may be said that when brought into force, except as regards the Office Establishments, we shall be found in a very little more efficient state than before.

CHAPTER I.

AREA AND BOUNDARIES.

6. The area under forest conservancy in the Southern Circle on the 1st April 1884, and gazetted under the Forest Act, 1878, was 5,314 square miles and 272 acres, made up of "Reserved Forests" 1,800 square miles and 45 acres, and "Protected Forests" 3,514 square miles and 227 acres.

7. The additions and disforestments made during the year are as follows:—

	Reserved Forests.		Protected Forests.	
	Square Miles.	Acres.	Square Miles.	Acres.
Added	...	65	...	...
Excluded or disforested	1	403	1	522

leaving at the close of the year, that is on the 31st March 1885, 5,311 square miles and 52 acres, made up of—

	Square Miles.	Acres.
Reserved Forests	1,798	347
Protected Forests	3,512	345
Total...	5,311	52

8. The statistical particulars of the different districts are as under :—

Name of Collectorate.	Area on the 1st April 1884.				Added during the Year.				Excluded or transferred to other Heads.				Area on the 31st March 1885.				Total Forest Area.	
	Reserved.		Protected.		Reserved.		Protected.		Reserved.		Protected.		Reserved.		Protected.			
	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.
Kánara	683	446	2,865	2	..	..	..	..	..	..	..	..	683	446	2,865	2	3,548	448
Belgaum	493	103	130	171	..	65	..	..	1	18	..	..	492	150	130	171	622	321
Dhárwár	171	425	308	307	..	..	..	..	..	..	..	..	171	425	308	307	480	92
Bijápur	155	203	89	409	..	..	..	..	..	..	..	..	155	203	89	409	244	612
Ratnágiri	20	13	..	..	..	..	..	..	..	..	..	..	20	13	..	..	20	13
Kolába	276	135	120	618	..	..	..	..	..	385	1	522	275	390	119	96	394	486
Total..	1,800	45	3,514	227	..	65	..	..	1	403	1	522	1,798	347	3,512	345	5,311	52

9. It will be understood from the above that there was no change made in area and classification during the year under report, except in the Belgaum and Kolába Districts. In the former 65 acres were added to the "Reserved Forests", and 1 square mile and 18 acres were disforested; and in the latter 385 acres were excluded from the Reserved, as well as 1 square mile and 522 acres from the "Protected Forests".

10. In addition to the above notifications, which were made under Sections 19 and 26 of the Forest Act, areas in the Ratnágiri, Kolába and Dhárwár Districts, aggregating to 384 acres and 6 gunthás were published under Section 4. They await final enquiry and settlement by the Forest Settlement Officers.

11. Two Forest Settlement and Demarcation Officers were appointed during the year; one, Mr. W. F. Sinclair, specially for the Kolába Division—*vide* Government Resolution No. 7863, dated the 4th October 1884; and the other, Mr. E. J. H. O. Gleeson, for the Kánara Divisions—*vide* Government Resolution No. 173, dated the 9th January 1885. Mr. H. Woodward was *ex-officio* Forest Settlement Officer in Belgaum and conducted the duties there.

12. As shown in last year's report Mr. A. C. Logan continued to conduct the duties of Special Forest Settlement and Demarcation Officer in Ratnágiri.

13. *The Dhárwár Division* forest settlement was finally completed in 1883-84, and, therefore, nothing remains to be done, there except one small survey number which was purchased last year for a forest watch-house and wood depôt.

14. *In Bijápur* alone, beyond what has been done by the Divisional Forest Officer in selecting new lands, and reported on specially, no arrangements for forest settlement have been made.

15. The following shows the work done during the year towards forest settlement in the several Divisions.

16. *Kánara Divisions.*—No fresh areas were gazetted during the year under report. Mr. Gleeson continued his enquiries regarding the 46 villages of the Yellápur Range and 21 of Ankola, the lands of which were selected by the Divisional Forest Officer, Central Division, and referred to in the last two years' reports. In this Division also the Divisional Forest Officer selected lands aggregating 11,723 acres in 24 villages of the Kumta Range and submitted schedules of them.

17. In the Southern Division also, the Divisional Forest Officer selected lands in 38 villages of the Sirsi Range, and 11 of Honávar.

18. The following mapping work was done in the Demarcation Office.

19. Good progress was made in colouring 10 copies of each of the Forest Maps of the Kod and Bankápur Ranges and 4 of Hángal in the Dhárwár Division received from the Government Photozincographic Office, Poona, as also those of the Kárwár and the southern portion of the Ankola Ranges in Kánara. A Forest Map of the eastern portion of the Kumta Range was prepared on a scale of 4 inches to 1 mile. Reduced maps on a scale of 1 inch to 12 miles of the Dhárwár and Bijápur Divisions were completed.

20. In the *Belgaum Division* Mr. Woodward submitted his report on the forest settlement and demarcation of the Parasgad Range. The report was submitted by him on the 16th March 1885.

21. The Conservator also submitted a schedule of fresh lands aggregating 29,278 acres in the Khánápur Range. The schedule was submitted through the Collector with this office report No. 6791 of the 7th March 1885 on the Khánápur Range forest settlement generally.

22. *Dhárwár Division.*—Here, as already shown, the forest settlement was finally completed in 1883-84.

23. *Bijápur Division.*—No forest settlement work has been done here, but the Divisional Forest Officer carefully inspected and submitted schedules of fresh lands in the ranges South of the Krishna, *viz.*, for Bágalkot, Bádámi and Hungund aggregating to 26,455 acres. The report and the schedules were submitted in February 1885, through the Commissioner, S. D.

24. *In Ratnágiri* Mr. Logan reports that no area has as yet been finally settled. Further that schedules on account of lands to be gazetted under Section 19 of the Forest Act in Málwan and Dápoli are being prepared.

25. *In Kolába* Mr. Sinclair began operations in October 1884, and conducted them with great earnestness and vigour.

26. Within the 31st March 1885 he had been able to conduct enquiries into 88 of the forest villages of the Panvel, Pen, Nágothna and Alíbág Forest Ranges, and to hear 153 cases and send out 1,079 copies of his decisions.

27. He further submitted his report on the forest settlement and demarcation of the Uran Mahál in December 1884, as well as found opportunity to erect a considerable number of boundary-marks.

28. Eight double sets of maps of proposed plantation sites and of forest blocks were prepared in his office.

29. Altogether Mr. Sinclair is conducting his forest settlement and demarcation duties in a highly satisfactory manner, and his fair decision worked up to labouriously in and out of office is doing untold good.

30. The Conservator had the pleasure of going over some of Mr. Sinclair's work with him in the Uran Mahál in November 1884.

Boundaries.

31. Except where survey numbers have been divided and a part of them included or excluded at the time of forest settlements, the Forest Reserves in all the revenue survey settled divisions are fairly well shown by the Survey Department.

32. Though these marks have to be searched for village map in hand in the heavy forest parts, yet they lay down the forest limits accurately enough, and later on, when the demarcation of the forests by means of pillars and lines is

taken up in earnest, they will be of the greatest use. All the revenue survey boundary-marks defining the forest limits are charged for in the forest accounts.

33. Besides these survey boundaries the following show the additional lines and boundaries completed during the year :—

In Kánara.—None.

In Belgaum.—Four miles and nine chains of rides 30 feet broad separating the Reserved from the Protected Forest in the Gokák Range were cleared, as well as 323 stone cairns erected.

In Dhárwár.—Eight forest blocks were demarcated by means of sliding suitable boards, $3' \times 9'' \times 1\frac{1}{2}''$ into cuts made in the trees along the boundary lines. The number of these boards has not been given by the Divisional Officer in his report.

In Bijápur.—None.

In Ratnágiri.—None.

In Kolába.—The following were erected by Mr. Sinclair:—

103	stone cairns	showing	Dalhi lands.
237	do.	do.	forest boundaries.
29	do.	ordinary stones	do.

34. Compared with the previous one the following is the expenditure of the year 1884-85 under this head of the report:—

	1883-84.	1884-85.
(*a*) Demarcation lines and boundaries	3,166 7 8	2,235 6 6
(*b*) Compensation for lands	1,287 0 0	123 0 0
(*c*) Surveys and working plans	4,220 1 9	4,642 15 2
Total ...	8,673 9 5	7,001 5 8

35. The exact state of forest settlement in the Southern Circle will be seen from the 6 district maps embodied with this report and bound in at the end of this chapter.

36. The references show all particulars, and are so clear that it would appear unnecessary to further add details which may be seen from the maps at a glance.

37. The parts of each division which it is expected will be finally settled during 1885-86 are:—

38. *Kánara.*—In the Yellápur range the 46 villages shown in neutral tint, and 34 in vermilion on the map.

In the Supa Range the 53 villages shown in vermilion in the extreme northern portion, and taking a line drawn between the Kuveshi Ghát to Supa and near to Dandeli.

In the Ankola Range the 21 villages in the southern part shown in green and yellow.

In the Kárwár Range the whole shown in crimson lake,

39. *Belgaum.*—The whole of the Khánápur Range shown in crimson and neutral tint.

40. *Kolába.*—The Panvel, Alibág, Pen, Nágothna and Roha Ranges shown in crimson and vermilion.

CHAPTER II.

SURVEYS, WORKING PLANS AND ANNUAL PLANS OF OPERATIONS.

1.—SURVEYS.

41. There was no survey work done in this Circle beyond the measuring off and division of the cultivation and waste lands from the forests by the Survey and Settlement Department.

42. This is not, however, a forest survey for forest administrative purposes, though very useful as a preliminary measure, as it gives a very near approximation of the forest area.

43. A survey of this kind has been almost completed in all of the districts comprising the Southern Circle, there only being the southern division of Kánara to be done, and in parts of this even fair progress has been made.

2.—WORKING PLANS.

44. During the year proposals were set on foot for a topographical survey, on a scale of 12 inches to the mile, of the southern part of the Belgaum forests, which are intersected by the Southern Marátha Railway from east to west and from north to south throughout their length, and also of the valuable parts of Kánara adjoining, the survey to be conducted by a Topographical Survey Party.

45. This is a work which is really very urgent and pressing, for the obvious reasons of the railway system, but the details were not finally arranged for at the close of the year under report.

46. For obvious reasons also until suitable maps are available reliable working plans cannot be made.

3.—ANNUAL PLANS OF OPERATIONS.

47. The budget-estimates of the several forest divisions are really the annual working plans, and they are arranged for, first of all, with the Divisional Forest Officers.

48. These annual plans decided on before the preparation of the budgets are generally adhered to with considerable accuracy.

49. In the Kolába Division alone has there been any change of consequence to record, and there, instead of to the more extended area of the forest budget proposals, the cuttings were concentrated in ranges and done by contract, the contractors having the right to purchase the whole wood and fuel, "*in situ*," at certain rates fixed beforehand on the measurements being made of their work.

50. Extended cuttings however will have to be more practised than it has been hitherto in the Kolába Division, and owing to much of the forest area being protected by the Khots or landed proprietors on a share system.

51. For obvious reasons unless cuttings are arranged for, every two or three years at least, the Khots as caretakers get no return for the protection afforded, and this naturally is hateful to them.

52. Few or no cuttings during long periods of protection has been the cause, and with some reason, of much discontent in Kolába, and, therefore, the forests thus burdened with share rights on account of protection will have to be arranged into compartments and rotations of one, two or more years as the forest growth and circumstances may permit of.

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—ESTABLISHMENTS.

53. The changes among the officers to report are—

(1). Mr. F. S. Menezes, Sub-Assistant Conservator of Forests, Southern Division of Kánara, was pensioned from the 5th June 1884, and Forest

Ranger Sheshu Manju took over charge of the office from him from that date, and acted as Sub-Assistant Conservator of Forests till the 28th October following.

(2). Mr. J. M. Fernandez, Officiating Sub-Assistant Conservator of Forests, 3rd Grade, Belgaum, was confirmed in that appointment from the 5th June 1884, by the retirement of Mr. Menezes.

(3). Mr. T. R. D. Bell, Assistant Conservator of Forests, appointed by the Secretary of State for India, joined the Conservator of Forests on tour off Ratnágiri on the 11th December 1884, and was attached to his office for duty from that date.

(4). Mr. G. A. Hight, Divisional Forest Officer, Bijápur, was granted privilege leave of 2 months and 13 days from the 26th December 1884, and resumed charge on the 11th March 1885. During his absence Forester Gopál Swámiráo held charge of the office.

(5). Mr. H. Barrett, Divisional Forest Officer, Dhárwár, was in charge of the Northern Division of Kánara in addition to his own division from the 3rd to the 13th October 1884, during the absence of Mr. Hugh Murray ordered to appear before the Central Examination Committee at Poona according to the higher standard.

(6). Colonel W. Peyton, Conservator of Forests, Southern Circle, acted as 1st Grade Conservator of Forests from 1st may 1884 to the 6th February 1885, during the absence of Mr. Shuttleworth on furlough.

(7). Forest Ranger Yeshwant Báburáo acted as Sub-Assistant Conservator of Forests from the 27th July to the 27th October 1884.

54. Three students were appointed on scolarships of Rs. 8 each in January 1885, and sent to the Poona College of Science under the authority of Government Resolution No. 7039 of the 3rd September 1884 to go through a special forest course of study there.

55. The permanent Protective and Office Establishments have remained the same during the year under report. They were as usual assisted by temporary establishments.

56. The re-organization of the subordinate establishments, submitted with Government Resolutions Nos. 8329 and 1672, dated the 22nd October 1884 and 26th February 1885, respectively, was sanctioned by the Government of India in December 1884 and March 1885.

57. The proposals of the Conservator of Forests were greatly modified at the time of sanction, and it is feared that when given effect to, which could not be done within the year under report, it will be found that we shall be very little better off or more efficient than before.

58. Where the forests are not fairly protected aggression from inside and outside is simply encouraged, and results in friction and the advancement of the most extravagant demands when at last it becomes necessary to enforce the Government proprietorship.

2.—PROTECTION AND BREACHES OF FOREST RULES.

59. The forest offences disposed of during the year before the Magistrates as compared with the previous one are:—

Divisions.	1883-84.			1884-85.			Percentage of Failures.	
	Cases in which Conviction was obtained.	Cases in which Conviction failed.	Total Number of Cases.	Cases in which Conviction was obtained.	Cases in which Conviction failed.	Total Number of Cases.	1883-84.	1884-85.
Kánara ... Northern Division ... / Central ,, .. / Southern ,, ...	25	9	34	12	2	14	26	14
Belgaum	42	6	48	28	6	34	12	17
Dhárwár	24	10	34	14	...	14	29	...
Bijápur	25	1	26	8	2	10	3	20
Ratnágiri	14	3	17	36	7	43	17	16
Kolába	30	9	39	12	18	30	23	60
Total ...	160	38	198	110	35	145	19	24

60. The total number of cases brought up in 1884-85 is 145 against 198 in the previous year, or a net decrease of 53 in number; the percentage of failures is 24 to 19, which shows carelessness in either preferring or conducting the prosecutions. Kolába is as remarkable with its 60 per cent. of failures as Dhárwár is with none. Bijápur ranks next with 20 per cent. of failures to Kolába, and then Belgaum and Kánara with 17 and 14 respectively.

61. The great falling off in the prosecutions compared with last year shows the disposition of the forest officers to commute wherever possible instead of going the full length of prosecuting in every case. This is borne out by the fact that against Rs. 976-9-5 taken on account of commutations last year, Rs. 2,207-6-7 have been taken during the year under report.

62. A comparison of the cases commuted under Section 67 of the Forest Act during the two years is not possible just now, and owing to the details of the number and collections according to Divisions not being available in this office, but those of the present year are shown in the following table:—

Names of Divisions.	Number of Cases commuted.	Amount of the Fines recovered.
		Rs. a. p.
Northern Division of Kánara	2	13 2 4
Central „	7	88 14 6
Southern „	25	171 13 5
Belgaum	18	36 7 0
Dhárwár	7	40 6 0
Bijápur	46	114 6 6
Ratnágiri	40	28 9 7
Kolába	214	1,713 11 3
Total ...	359	2,207 6 7

63. The rule that the Divisional Forest Officers must give their sanction before a prosecution is instituted continues to work well, and a comparison of the table of offences and commutations given fully establishes this.

64. The number of forest offences coming under the different categories and the amount of the fines levied is shown below:—

Divisions.	Convictions.			Acquittals.			Total.	Fines imposed.	Value of the Property confiscated.
	Theft.	Mischief.	Other Offences.	Theft.	Mischief	Other Offences.			
								Rs. a. p.	Rs. a. p.
Kánara ... Northern Division, Central „, Southern „ ...	9	3	...	2	...	...	14	134 0 0	39 15 6
Belgaum	8	20	...	4	1	1	34	73 8 0	28 0 3
Dhárwár	13	...	1	...	...	...	14	50 8 0	36 13 3
Bijápur	8	...	...	2	...	...	10	20 0 0	3 6 6
Kolába	7	2	3	8	6	4	30	...	...
Ratnágiri	28	3	5	3	2	2	43	157 14 0	259 0 11
Total ...	73	28	9	19	9	7	145	435 14 0	367 4 5

65. There were no cases of a serious nature in breach of Forest Rules during the year under report, and the conduct of the establishments was satisfactory, and the feeling of the people towards the department generally good.

3.—FOREST FIRES.

66. Forest fires appeared to the Conservator just as numerous, but less extensive perhaps than last year, in Kánara at least; judging, however, from the reports received from the officers about one-twelfth only of the whole area was burnt.

67. The following exhibits the areas burnt, and the percentage of the protection afforded:—

Divisions.	Forest Area.		Protected.		Burnt.		Percentage of Protection.
	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	
1 Kánara ... Northern Division ... / Central ,, ... / Southern ,, ...	3,548	448	3,242	452	305	636	91·3
2 Belgaum	622	321	589	158	33	163	94·6
3 Dhárwár	480	92	381	486	98	246	79·5
4 Bijápur	244	612	244	525	...	87	99·9
5 Ratnágiri	20	13	16	417	3	236	83·1
6 Kolába	394	486	392	438	2	48	99·4
Total ...	5,311	52	4,867	556	443	136	91·6

68. Fires most certainly do not run through a whole Forest Range as they used to do formerly, but they are still numerous, though put out soon after occurring. This is due in a great measure to the rigorous orders passed on the subject by the Commissioner and the Collectors which have been made known widely through printed notices circulated through the village officers; to the Forest Guards constantly warning the villagers to be careful with lights, and lastly, to the villagers themselves frequently extinguishing fires as soon as they break out.

4.—GRAZING AND FENCING.

69. The prevailing system and orders as regards grazing in the Kánara, Belgaum and Dhárwár Divisions is to take a uniform fee of 2 annas for each head of horned cattle, and 6 pies for every sheep and goat, except in valuable kurans or meadows where the grass is sold by auction according to old practice.

70. The whole areas of the divisions named are thrown open to grazing throughout the year, except in the firewood coupes and the plantations and other parts where cultural operations are carried on, where it is not permitted to graze at all, and in the Reserved Forests, which are closed between the 1st February and 5th June in each year for fire protection reasons.

71. This practice which gives cheap and abundant grazing finds great favour with the people, and from the large extent open there is no damaging overcrowding.

72. A copy of the instructions issued for the better control of fires, grazing and general treatment in Reserved Forests will be found in Appendix A.

73. The instructions, it may be added, obtained the full concurrence of the Commissioner and the Collectors previous to issue, and several thousand copies were printed and circulated under the authority of the latter officers.

74. In the Bijápur and Kolába Divisions the fee system, as obtains in Kánara, Belgaum and Dhárwár, has not yet been introduced. There the grazing is sold by auction, and in Ratnágiri the small area of forest there is closed to grazing.

75. The following exhibits the grazing receipts of the year according to Divisions:—

Divisions.	Receipts.			Remarks.
	Rs.	a.	p.	
Kánara .... Northern Division ...	6,179	6	9	At the rate of 2 annas a head per annum for horned cattle and 6 pies for goats and sheep. Sheep and goats are not allowed in Reserved Forests.
Kánara .... Central ,, ...	7,642	14	9	
Kánara .... Southern ,, ...	9,133	0	6	
Belgaum	16,444	10	10	
Dhárwár	25,542	15	6	
Bijápur	2,596	12	0	By auction sale of the grazing.
Kolába	2,517	4	1	
Ratnágiri	247	4	0	By grass cut and removed.
Total ...	70,304	4	5	

76. Owing to the scanty fall of rain and scarcity of fodder in the plain districts it was not possible to close all of the Reserved Forests after the manner directed in Appendix A. It became necessary to open the most of them to grazing at the request of the Collectors; moreover the department in Kánara was called upon to cut and press grass.

77. The following shows the area of the Reserved Forests closed throughout the whole or portion of the year:—

Divisions.	Area closed.		Remarks.
	Throughout the year.	For Parts of the year.	
Northern Division of Kánara..	None but firewood coupes, plantations and parts where cultural operations were carried on.	25 Square miles (about)	For four months.
Central „ „ ...		55 „ „	
Southern „ „ ...		34 „ „	

5.—NATURAL RE-PRODUCTION.

78. No special measures were taken to improve natural re-production, though the protection from fire and closing assist this materially.

79. There is no doubt but that natural re-production might be greatly assisted by fencing in areas where it is best and most valuable, and by favouring the superior species at the expense of the inferior.

80. In the Northern and Central Divisions of Kánara it is good in the teak tracts, but more especially in the former where the fellings have been heavy for many years past. Wherever light has been let in, in fact, through heavy fellings the re-production is plantation-like and the sapling growth first class.

81. In the Southern Division it is not so good, but then in the forests of the Southern Division the fellings have not been so heavy.

82. In the Belgaum Division, in the southern part where teak prevails, there is some good plantation like groups to be seen where fellings have been heaviest, but during the last few years it has not been good and because of the fires there.

83. In the Dhárwár Division the same may be said.

84. In Bijápur, the re-production there, both natural and aided by broadcast sowings, has quite changed the features of the southern portion since conservancy was first taken up in 1871. Nim saplings (melia) and bámboos, rare then, are now common, and bare hills of that period are in many parts covered with a thick growth of scrub through which many trees of the better species may be seen struggling for existence.

85. In the Ratnágiri, Kolába and in all of the previously named divisions the natural re-production from stools in the teak pole forests, and on the firewood cuttings, is excellent, and no special measures were taken to assist to re-stock artificially.

6.—ARTIFICIAL RE-PRODUCTION.

Plantations and Cultural Operations.

86. Form No. 50 appended shows the area of the plantations and cultural operations up to the close of the year under report, also the cost of the same.

87. *Kánara.*—No regular planting operations were carried on except in the Honávar Range of the Southern Division. There 17,626 Casuarina plants were added to the Kasarkod plantation. They are reported to be growing rapidly and well, and such plants as were cut down by the grasshoppers referred to last year have been re-placed.

88. Thinning operations were conducted on the Kádra and Márdi teak plantations of the Kárwár Range in the Northern Division, and Rs. 1,589 were

realized there from the sale of the 15,500 saplings cut out; Rs. 45 were also realized from the sale of wind-falls in the Kárwár Casuarina plantation.

89. In connection with combining the raising of useful trees with kumri cultivation, in the same manner as is done on like cultural operations in British Burma, the measure of success obtained is most discouraging.

90. In the Kárwár range out of the 8,145 plants put down by the cultivators 1,998 are said to have died, but the remainder are reported to be thriving well; on the other hand in the Honávar Range where 276 acres of kumri was given, only 104 could be planted owing to there being an insufficient number of plants raised in the nurseries, and of these about 10 per cent. only are left.

91. The explanation given is that the nurseries were not raised in time and that the plants were too small and tender to bear the transplanting. The forester whose business it was to attend to this work utterly neglected it and has been reduced.

92. *Belgaum Division.*—No fresh land was given for kumri here, but an attempt was made to re-stock 1,674 acres by allowing a second crop to be raised on it, and on which 50,406 plants were put out in place of an almost similar number of the previous year's planting which are said to have died. Mr. MacGregor, the Divisional Forest Officer, attributes this want of success to the young plants not being able to withstand the force of the monsoon to which the Belgaum Ghâts are greatly exposed. Considering however that the Belgaum Ghâts are covered with hirda trees from one end to the other, this is not understoood. They are quite in their "habitat" and it is thought that if only transplanted when fully 2 years old they would be sure to succeed. Nurseries with this object will be prepared and kept up in future.

93. *Dhárwár Division.*—3,000 divi-divi, 3,530 teak, 550 mango and 133 casuarina plants were put out on the several small plantations of this division, and of the number 1,000 divi-divi, 379 teak and 120 mangoes are said to have been destroyed by white ants and drought.

94. Broadcast sowings of teak and other seeds were tried in various parts of the Kod and Gadag Ranges where areas of rather bare highlands were recently acquired for forest purposes. From the rainfall having been very scanty and far below the average little or no success has attended these sowings.

95. *Bijápur Division.*—In the Bádámi Range 4,300 nim (melia) plants were added to the Anantpur plantation. Of these 600 are said to have died from drought, and notwithstanding the scantiness and lateness of the rainfall the plantation is said to be doing well. The Conservator visited this plantation in November last and was much pleased with the good work done. There are bámboos and various other kinds of trees besides "nim".

96. Nurseries sufficient to raise 5,360 plants were also formed for transplanting in the current year.

97. The usual broadcasting of seeds of various kinds was also done, and on hill-sides where a few years ago not a single plant was to be seen, many saplings, and of nim (melia) in particular, scattered here and there may now be observed.

98. *Ratnágiri Division.*—6,633 plants of Casuarina, teak, divi-divi and ain were planted in the Dápoli Reserves. Of these 564 are said to have died. A nursery of 8,400 plants of various kinds was also raised for transplanting out on the reserves during 1885-86.

99. *Kolába Division.*—1,300 Casuarina plants were planted out in the Warsoli plantation of the Alibág Range. Of these 200 died. A nursery of 3,000 Casuarina plants has been also raised.

100. The cost of the plantations and up-keep of them during the year compared with the previous one was Rs. 7,198 against Rs. 6,104.

7.—CUTTING OF CREEPERS, &c.

101. There is nothing special as regards this to record.

102. The Forest Guards have orders to cut them in their rounds and on the operations where they are employed.

8.—EXPERIMENTS AND EXOTIC TREES.

103. There have been no fresh experiments with exotic trees.

104. In the Northern Division of Kánara the Pithecolobium Saman grows well below the Ghâts, and so does the Divi-divi (Cæsalpinia coriaria) seem also to adapt itself to the climatic conditions there. On the kumri lands where it is being planted the return from pods ought to be valuable at some future time. The former has lately flowered at Kadra, but has not set fruit, and some trees of the latter introduced into the plantation there in 1870 now bear crops of good fruit.

105. The Carob has been experimented with in all of the divisions and may be said to have failed. Special report has been made regarding this.

9.—COMMUNICATIONS AND BUILDINGS.

106. It was the practice previous to 1884 for the forest to give moieties to the Public Works Department on account of forest works done through the agency of the latter department. During, however, the year under report it was ruled by the Government of India, and conveyed in Government Resolution No. 4585, dated the 6th June 1884, that the practice should be discontinued.

107. The following exhibits the expenditure incurred under this head for works done by the Forest Officers, or through the agency of the Revenue Officers.

(*a*) ROADS.

	Rs.	a.	p.
Northern Division of Kánara	382	13	0
Central „ „	658	8	1
Southern „ „	670	15	3
Belgaum „	132	9	0
Dhárwár „	107	6	0
Bijápur „	1	7	5
Kolába „	...		
Ratnágiri „	50	13	0
Total ...	2,004	7	9

(*b*) BUILDINGS.

	Rs.	a.	p.
Northern Division of Kánara	550	5	10
Central „ „	1,632	10	4
Southern „ „	1,027	8	0
Belgaum „	2,037	0	6
Dhárwár „	616	0	7
Bijápur „	150	0	0
Kolába „	24	4	9
Ratnágiri „	3	6	0
Total ...	6,041	4	0

(*c*) OTHER WORKS.

	Rs.	a.	p.
Northern Division of Kánara	...		
Central „ „	10	0	0
Southern „ „	190	0	0
Belgaum „	211	15	0
Dhárwár „	59	12	7
Bijápur „	...		
Kolába „	4	9	6
Ratnágiri „	...		
Total ...	476	5	1
Grand Total ...	8,522	0	10

108. In the Northern Division of Kánara Rs. 300 were expended on repairs to the Bhágwati-Poteli road, and a forest watch-house was built at Kulgi in the Haliyál sub-division at a cost of Rs. 300. The repairs to the road was done by the Revenue Officers, and the watch-house built by the Forest Officers.

109. In the Central Division of Kánara roads from Udamaki to the Kannigeri Saw Mills, and from Hitalkárgadde to Mágod were repaired—the first by the Forest and the second by the Revenue Officers. A rest-house at Kolikéri in the Yellápur sub-division was built at a cost of Rs. 907; also a watch-house constructed there for Rs. 471. Both were constructed by the Forest Officers.

110. In the Southern Division of Kánara the Hulekal-Menshi and Katur-Umajgi roads were repaired, and four watch-houses were built at a cost of Rs. 250 each. The roads were repaired by the Revenue Officers and the watch-houses constructed by the Forest Officers.

111. In the Belgaum Division the Halshi-Nagargali road was repaired and six watch-houses were built at a cost of Rs. 300 each. The works were constructed by the Forest Officers.

112. In the Dhárwár Division Rs. 450 were expended in completing a rest-house at Devikop in the Kalghatgi sub-division, and a new watch-house was built at Artal in the Bankápur sub-division at a cost of Rs. 304. Both were constructed by the Forest Officers.

113. In the Bijápur Division a watch-house was built at Bágalkot by the Forest Officers at a cost of Rs. 150.

CHAPTER IV.

YIELD AND WORKING.

114. The introduction of the Forest Department Code has wrought no change in the working of the forests of this Circle, but only in the accounts, the account forms or statements to accompany Forest Administration Reports and the arrangements to be followed in preparing the same where found suitable; it is well therefore to say here that the system of working, through which the bulk of the forest produce is brought to and sold at depôts annually, with little or few exceptions, has remained the same.

115. The following exhibits the outturn or yield of the forests of the several divisions of the Southern Circle for the two years of 1883-84 and 1884-85 compared:—

(1). Through departmental operations (forest produce brought to depôts by Government agency).

(2). Through the removal of produce by purchasers on the payment of fees.

(3). Ditto for export on ditto.

(4). Ditto free grants of forest produce.

Divisions.	Description.	1883-84.		1884-85.	
		No. of Logs.	Khandis.	No. of Logs.	Khandis.
	(1).—*Through Departmental Operations (Forest produce brought to Depôts by Government Agency).*				
Northern Division of Kánara.	Teak	8,185	12,068	10,004	15,195
	Do. round pieces for sleepers	6,509	...	11,900	...
	Do. poles	39,047	....	28,395	...
	Blackwood	171	215	295	342
	Junglewood	2,164	3,445	755	1,040
	Firewood ... ... Tons.	652	...	496	...
	Myrobalans...	...	1,614	...	2,093

Divisions.	Description.	1883-84. No. of Logs.	1883-84. Khandis.	1884-85. No. of Logs.	1884-85. Khandis.
Northern Division of Kánara—*contd.*	(2).—*Removal of produce by purchasers for local consumption on the payment of fees.*				
	Junglewood...	...	615	....	1,448
	Bámbus	282,162	...	308,018	...
	Firewood ... ... (Cart-loads.)	3,477	...	4,756	...
	Do. ... ... (Head-loads.)	28,709	...	25,737	...
	Charcoal ... ... (Maunds.)	...	...	6,398	...
	Myrobalans...	...	...	...	3
	Karvi ... ... (Head-loads.)	...	...	36	...
	Rattan ... ... (Loads.)	18	...	2	...
	(3).—*Removal of produce for export on payment of fees.*				
	Junglewood...	...	...	...	4,229
	Bambus	1,338,913	...	17,08,650	...
	Firewood ... ... Tons.	5,103	...	5,561	...
	Charcoal ... ... (Maunds.)	510	...	...	...
	Shige-bark ... ... (Do.).	...	146	...	...
	(4).—*Free grants of forest produce.*				
	Junglewood...	...	1,361	...	1,606
	Bámbus	31,167	...	17,650	...
	Firewood ... ... (Cart-loads.)	...	...	40	...
	Do. ... ... (Head-loads).	...	...	250	...
Central Division of Kánara.	(1).—*Through Departmental Operations (Forest produce brought to Depôts by Government Agency).*				
	Teak	958	1,385	1,843	4,911
	Do. round pieces for sleepers	27,587	...	38,081	...
	Do. poles	...	...	5,445	...
	Sandalwood...	...	31	...	21
	Junglewood...	1,281	1,389	139	152
	Blackwood	73	25	93	116
	Myrobalans	...	313	...	408
	Shikakái...	...	...	...	19½
	Brakes for traffic carts ... ... No.	11,472	...	6,965	...
	(2).—*Removal of produce by purchasers for local consumption on the payment of fees.*				
	Teak	...	...	...	131
	Junglewood...	...	1,732	...	1,899
	Do. poles	...	...	750	...
	Bámbus	767,811	...	1,88,556	...
	Firewood ... ... (Cart-loads.)	3,186	...	3,064	...
	Do. ... ... (Head-loads.)	73,119	...	70,188	...
	Charcoal ... ... (Maunds.)	718	...	646	...
	Shige-bark ... ... (Do.).	232	...	...	...
	Rattan ... ... (Loads.)	17	...	73	...
	(3).—*Removal of produce for export on payment of fees.*				
	Junglewood...	...	...	...	424
	Bámbus ... ... (No.)	581,124	...	7,52,145	...
	Dry-bámbus... ... ... (Cart-loads).	...	...	111	...
	Firewood ... ...(Tons.)	520	...	808	...
	Do. ... ... (Cart-loads.)	...	...	12	...
	Reeds ... ... (Loads.)	2,800	...	13,075	...
	Stones ... ... (Cart-loads)	...	...	25	...
	Moorum ... ... (Do.).	...	...	49	...
	(4).—*Free grants of Forest produce.*				
	Teak...	...	...	...	23
	Junglewood	...	861	...	2,492
	Do. poles	100	...	150	...
	Bámbus	26,150	...	28,754	...
	Firewood ... ... (Cart-loads).	26	...	172	...
	Do. ... ... (Head-loads).	1,550	...	375	...

Divisions.	Description.	1883-84. No. of Logs.	1883-84. Khandis.	1884-85. No. of Logs.	1884-85. Khandis.
Southern Division of Kánara.	(1).—*Through Departmental operations (Forest produce brought to Depôts by Government Agency.)*				
	Teak	318	468	407	639
	Do. round pieces for sleepers ...	4,339	...	20,692	...
	Do. poles	993	...	708	...
	Blackwood	7	10	...	...
	Sandalwood	...	135	...	20
	Junglewood	1,920	2,204	982	1,417
	Myrobalans	...	2,287	...	1,863
	Shikakái	...	10	...	115
	(2).—*Removal of produce by purchasers for local consumption on the payment of fees.*				
	Teak	...	6	...	209
	Junglewood	...	4,620	...	7,848
	Do. poles	290	...	308	...
	Bámbus	249,937	...	92,812	...
	Firewood ... ... Cart-loads	4,645	...	5,499	...
	Do. ... ... Head-loads	57,475	...	63,784	...
	Charcoal ... ... Maunds	241	...	301	...
	Rattan ... ... Loads	18	...	207	...
	Thorns ... ... Cart-loads	8	...	11	...
	Palmyra trees	134	...	79	...
	(3).—*Removal of produce for export on payment of fees.*				
	Junglewood	...	...	...	50
	Bámbus	175,812	...	122,100	...
	Firewood ... ... Tons	...	...	100	...
	Shikakái pods	...	110	...	...
	Shige-bark ... ... Maunds	...	...	729	...
	Hadchari leaves ... ... Maunds	80	...	...	...
	(4).—*Free grants of Forest produce.*				
	Junglewood	...	1,826	...	1,943
	Do. poles	535	...	900	...
	Bámbus	4,298	...	5,150	...
	Firewood ... ... Cart-loads	...	...	6	...
Belgaum Division.	(1).—*Through Departmental operations (Forest produce brought to Depôts by Government Agency.)*				
	Teak...	355	529	427	766
	Do. poles	8,929	2,846	1,054	5,023
	Do. pieces	198	112	117	85
	Blackwood	75	128	47	106
	Do. pieces	23	15	14	13
	Junglewood	121	252	167	391
	Do. pieces	17	12	14	14
	Myrobalans	...	2,516	...	10,234
	(2).—*Removal of produce by purchasers for local consumption on the payment of fees; and* (3).—*Removal of produce for export on payment of fees.*				
	Teak poles	...	...	3,480	...
	Junglewood	...	521	464	72
	Do. pieces	191	...	...	...
	Do. rafters	...	...	16	3
	Do. poles	...	...	26,233	...
	Bámbus	705,323	...	561,938	...
	Firewood... ... ... Stacks	23,200	...	25,258	...
	Do. ... ... Cart-loads				
	Do. ... ... Head-loads	132,177	...	91,325	...

Divisions.	Description.	1883-84.		1884-85.	
		No. of Logs.	Khandis.	No. of Logs.	Khandis.
Belgaum Division—*continued.*	(2).—*Removal of produce by purchasers for local consumption on the payment of fees; and* (3).—*Removal of produce for export on payment of fees*—continued.				
	Charcoal	...	409	...	718
	Thorns ... ... Cart-loads	50	...	49	...
	Do. ... ... Head-loads	1,731	...	384	...
	Agricultural implements	...	...	1,008	...
	Cane... ... ... Head-loads	433	...	424	...
	Shikakái ... ... Maunds	...	...	200	...
	Honey ... ... Do.	...	...	30	...
	Stone ... ... Cart-loads	1,755	...	3,100	...
	Kárvi ... ... Do.	19	...	170	...
	Bandargi bark ... ... Do.	...	...	12	...
	Bábul bark ... ... Do.	7	...	17	...
	Grass pullies	2,497	...	29,384	...
	(4).—*Free-grants of Forest produce.*				
	Jungle wood	...	785	4,039	572
	Bámbus	12,946	...	10,700	...
	Kárvi ... ... Head-loads	...	...	10	...
Dhárwár Division.	(1).—*Through Departmental operations (Forest produce brought to Depôts by Government Agency.)*				
	Teak...	43	...	...	...
	Do. rafters	13,375	...	15,295	...
	Do. posts	2,470	...	...	...
	Blackwood rafters	6	...	13	...
	Sandalwood	...	...	...	33
	Junglewood	20	...	...	...
	Do. rafters	1,643	...	4,245	...
	Do. posts	1,162	...	...	...
	Agricultural pieces, Jeráit-wood ...	22,682	...	24,761	...
	Hirdas	...	...	...	15
	(2).—*Removal of produce by purchasers for local consumption or export on payment of fees.*				
	Junglewood rafters	269	...	...	...
	Bámbus	308,415	...	505,273	...
	Do. ... ... Dry loads	...	...	11,820	...
	Firewood ... ... Head-loads	23,215	...	16,380	...
	Do. ... ... Cart-loads	7,550	...	12,177	...
	Do. ... Donkey-loads	...	...	2,717	...
	Do. ... Buffaloe-loads	...	...	53	...
	Agricultural pieces, Jeráit-wood ...	1,991	...	3,039	...
	Thorns ... ... Cart-loads	901	...	1,745	...
	Do. ... Bullock-loads	104	...	16	...
	Stone ... ... Cart-loads	578	...	11,892	...
	Do. ... ... Ass-loads	...	...	9	...
	Earth ... ... Cart-loads	...	...	83	...
	Do. ... Buffaloe-loads	...	...	37	...
	Grass pullies	1,550	...	6,650	...
Bijápur Division.	(2).—*Removal of produce by purchasers for local consumption on payment of fees.*				
	Sandalwood pieces	...	...	1	...
	Timber ... ... Cart-loads	246	...	127	...
	Jantis ... ... Head-loads	9,292	...	5,718	...
	Firewood ... ... Cart-loads	5,464	...	4,453	...
	Do. ... Bullock-loads	4,385	...	6,251	...
	Do. ... Donkey-loads	11,034	...	9,953	...
	Do. ... ... Horse-loads	...	...	1,103	...
	Do. ... ... Head-loads	134,117	...	112,787	...

Divisions.	Description.		1883-84.		1884-85.	
			No. of Logs.	Khandis.	No. of Logs.	Khandis.
Bijápur Division—*continued.*	(2).—*Removal of produce by purchasers for local consumption on payment of fees*—continued.					
	Thorns	Heaps	...	...	153	...
	Do.	Head-loads	...	...	46	...
	Leaves	Head-loads	6,042	...	5,881	...
	Do.	Bullock-loads	173	...	195	...
	Tarwad bark	Cart-loads	...	...	10	...
	White mimosa bark	Head-loads	...	...	6	...
	Stones	Cart-loads	17,813	...	17,258	...
	Do.	Bullock-loads	...	...	1,428	...
	Do. taken by the Southern Marátha Railway Company	Cubic feet	...	...	117,624	...
	Do.	Head-loads	...	...	3,501	...
	Earth	Cart-loads	858	...	1,137	...
	Do.	Bullock-loads	3,943	...	5,821	...
	Do.	Head-loads	1,769	...	1,311	...
	Do.	Donkey-loads	...	...	4,213	...
	Grass	Bundles	...	...	1,000	...
Kolába Division.	(1).—*Through Departmental operations (Forest produce brought to Depôts by Government Agency.)*					
	Teak beams		3,471	...	2,552	...
	Poles, 1st Class		13,688	...	9,321	...
	Do. 2nd „		20,379	...	13,279	...
	Do. 3rd „		20,534	...	14,795	...
	Do. 4th „		14,317	...	7,469	...
	Miscellaneous pieces		19,229	...	6,423	...
	Firewood	Head-loads	...	5,008	...	172,468
	Do.	Cart-loads	...	...	...	122
	Do.	Maunds	...	...	...	56,210
	Hirda		...	...	...	20
	Shikakái		...	...	...	21
	Shembe-bark	Bundles	255	...	...	...
	(3).—*Removal of produce for export on payment of fees.*					
	Teakwood pieces including beams		...	...	73,118	...
	Poles, 1st Class					
	Do. 2nd „					
	Do. 3rd „					
	Do. 4th „					
	Miscellaneous pieces					
	Firewood	Kowl Khandis	...	...	25,062	...
	(4).—*Free grants of Forest produce.*					
	Teak rafters		...	...	79	...
	Junglewood beams		...	...	749	...
Ratnágiri Division.	(1).—*Through Departmental operations (Forest produce brought to Depôts by Government Agency.)*					
	Beams	Sotas	1,860	...	925	...
	Poles, 1st Class		3,479	...	1,313	...
	Do. 2nd „		5,119	...	1,700	...
	Do. 3rd „		6,556	...	2,601	...
	Do. 4th „		4,054	...	1 645	...
	Miscellaneous pieces		5,789	...	5,854	...
	Firewood	Cubic feet	904	...	22,794	...
	Hirdas		...	...	...	...

116. *Kánara.*—The outturn in teak from the forests and brought to the depôts by Government agency for sale in the three divisions of Kánara was greater than in the previous year by 2,793 logs measuring 6,824 khandis, and 70,673 round teak pieces for converting into sleepers were also brought in compared with 38,435 in 1883-84.

117. The round pieces are sawn into sleepers after being received at the depôts and give one or more sleepers each according to size. In large numbers of round pieces converted the average number of sleepers obtained has been found to be almost 1·75 sleepers to every round piece.

118. The outturn of sleepers during the year was 106,106 and of this number 102,000 were delivered and receipts passed for them by the Southern Marátha Railway Company.

119. There are three kinds of sleepers supplied, *viz.*, rectangulars measuring $6' \times 8'' \times 4\frac{1}{2}''$, a large half round measuring $6' \times 10'' \times 4\frac{1}{2}''$ and a smaller one of $6' \times 8'' \times 4\frac{1}{2}''$, and the rates paid to the department for them were Rs. 2-9-6, Rs. 2-3-2 and Rs. 1-10-6 respectively.

120. The cost to the department for felling, preparing and delivering each sleeper averages 14 annas for the rectangular, 10 for the large half-round and 8 for the smaller one, leaving a profit of Rs. 1-11-6, Rs. 1-9-2 and Rs. 1-2-6 respectively on each sleeper.

121. Of blackwood there was an increase compared with the preceding year of 207 khandis; but there were fewer teak poles by 5,492, the number for 1883-84 being 40,040 to 34,548 in 1884-85.

122. There was also a lesser quantity of junglewood brought in, that for 1883-84 being 5,365 logs of 7,032 khandis to 1,876 logs of 2,609 khandis in 1884-85. There is not the same demand for junglewood that there used to be in the plain districts where 2nd and 3rd class teak is abundant and cheap, the plan followed in felling being to cut out all the unsound trees to make room for, and promote the growth of, the better and younger stock coming on.

123. There has further been a lesser quantity of sandalwood collected by 126 khandis, and because the most of the dried trees have been searched for and brought in within the three or four previous years; on the other hand, the yield in myrobalans and shikakái is 4,364 khandis of the former aud 134 of the latter in 1884-85 to 4,219 and 10 respectively in 1883-84.

124. For local consumption on the payment of fees 340 khandis more teak and 4,229 more junglewood were removed from the forests on the payment of fees varying from Rs. $1\frac{1}{2}$ to Rs. 6 per khandi; also 2,011 more cart-loads of firewood paid the 4 anna fee; and 7,345 maunds of charcoal were manufactured and removed compared with 959 in the previous year.

125. For export, paying fees, 4,703 khandis more junglewood, and 846 tons more firewood was extracted and taken to Bombay and Goa by sea compared with the previous year, as also 2,582,895 bámbus against 2,095,849 in 1883-84. The export of bámbus is mostly inland to Belgaum, Dhárwár and Kaládgi, and it may be expected to enormously increase with the further opening of the railway when there is direct communication by the Southern Marátha Railway with Poona, *viá* Londe, Belgaum, Kolhápur and Sátára. This branch of the Southern Marátha Railway system is sure to monopolize the most of the forest traffic leaving the Circle for Poona and Bombay.

126. The difference in the free grants call for no remark except as regards timber, of which 23 khandis more teak and 1,996 more junglewood was given in 1884-85 than in 1883-84.

127. As regards the value of the junglewood given free, though it is priced at Re. 1 to Rs. 3 per khandi, yet the stuff used would have very little value outside the Kánara District from being small and inferior. It is doubtful if as a rule it would pay the carriage expenses to the depôt for sale and return a profit.

128. The following exhibits the free grants of the year 1884-85 compared with the previous one :—

Divisions.	1883-84.			1884-85.		
	Rs.	a.	p.	Rs.	a.	p.
Northern Division of Kánara	13,242	1	7	4,549	9	2
Central „ „				7,295	0	7
Southern „ „				4,797	10	5
Total ...	13,242	1	7	16,642	4	2

129. The value of the wood given away may appear large, but Kánara is in every sense a forest district where the cultivation is but a fraction of the whole area. The people too have got into the way of asking for their wants instead of helping themselves as they did formerly, and besides the wood and other material given them for their humble thatched cabins is as before said very inferior and would not pay to bring to depôts to make a profit of.

130. *Belgaum Division.*—The outturn or forest yield in all articles of produce, mostly, is greater than it was in 1883-84, excepting in bámbus and head-loads of firewood, which is less by 143,385 in the former and 40,852 in the latter.

131. The yield in myrobalans is splendid, there having been 10,234 khandis collected in the year under report compared with 2,516 in the previous one.

132. Except as regards timber, which is allowed for local consumption but not for sale in the forest villages of the southern parts of Belgaum on the payment of fees varying from Re. 1 to Rs. 6 per khandi as in Kánara, the rates for other kinds of produce removed for local or export use is the same.

133. On both accounts the yield statement shows greater consumption in most items in 1884-85 compared with the previous year, excepting, as before remarked, in bámbus, in which there is a falling off of 143,385 in number owing to the supply in the parts open to cutting being limited.

134. The free grants of wood made in the Belgaum Division during 1883-84 and 1884-85 were :—

Division.	1883-84.			1884-85.		
	Rs.	a.	p.	Rs.	a.	p.
Belgaum	2,318	14	1	1,740	13	6

135. *Dhárwár Division.*—Here also as will be seen from the yield statemen the demand for all articles of forest produce, whether brought to the depôts f sale or removed from the forests on the payment of fees, has been greater t in the previous year.

136. There is no difference in the rates charged for forest produce removed from the forests on the payment of fees for local consumption or for export. The rates are alike, though it may be said that the 12,177 cart-loads of firewood removed during 1884-85, compared with 7,550 in 1883-84, were cut and stacked departmentally and disposed of retail "*in situ*". The same may be said of the agricultural pieces.

137. There are no free grants made in this division to report.

138. *Bijápur Division.*—No wood is brought in departmentally to depôts for sale in this division, and the removal of produce from the forests, which had been less than during 1883-84 and owing to the bad season, does not take into account local or export use.

139. There were no free grants of wood made here to report.

140. *Kolába Division.*—Compared with the previous year there was a considerable falling off in the wood brought and sold at the depôts, the number of teak beams, poles of all classes and pieces being 91,618 in 1883-84 to 53,839 in 1884-85, and owing to its being found that the work could be done at a lesser cost and with equal efficiency by contract, the contractor to cut and stack all the material on the spot and afterwards remove it within a given time under departmental supervision; on the other hand the number of head-loads, maunds and cart-loads were 228,800 to 5,008, and owing partly to arrangements made in connection with the employment of the wild tribes, which though costing more than it would otherwise do, gave them employment with a smaller percentage of profit to the department.

141. For export on the payment of fees the quantity of material removed was 73,118 beams, poles and pieces of wood, and 25,062 khandis of firewood, to nothing in the previous year. The two operations taken together there were 35,439 more beams, poles and pieces removed from the forests in 1884-85 than in the previous year.

142. The following free grants were made during the two years under comparison:—

Division.	1883-84.	1884-85.
	Rs. a. p.	Rs. a. p.
Kolába	361 0 0	1,709 8 0

and they had the sanction of Government specially accorded on account of houses destroyed by fire.

143. *Ratnágiri Division.*—The operations were conducted departmentally, the material being stacked, measured and disposed of "*in situ*". The number of all kinds of pieces cut and disposed of was less than in the previous year; 26,857 pieces in 1883-84 to 14,038 in 1884-85, and because it has been thought best to reduce cuttings till reliable working plans can be prepared.

144. Twenty-two thousand seven hundred and ninety-four cubic feet of fuel was, however, cut and sold to 904 in 1883-84.

145. There were no free grants made during the year.

146. 5.—SUMMARY OF PRODUCE REMOVED FROM THE FORESTS UNDER THE VARIOUS SYSTEMS IN VOGUE.

Description of Produce.		1883-84.	1884-85.	More.	Less.
Teak	Kahndis	14,456	21,874	7,418	...
Do. round pieces for sleepers	No.	38,435	70,673	32,238	...
Do. poles or rafters ...	„	1,31,262	172,438	41,176	...
Do. posts	„	2,470	...	...	2,470
Do. pieces, sotás, &c. ...	„	27,055	14,155	...	12,900
Do. beams	„	3,471	2,552	...	919
Blackwood	„	378	564	186	...
Do. rafters and pieces ...	No.	29	27	...	2
Sandalwood	Khandis	166	74	...	92
Junglewood	„	19,604	25,583	5,979	...
Do. rafters and pieces...	No.	3,045	33,365	30,320	...
Do. posts	...	1,162	...	...	1,162
Timber	Cart-loads	246	127	...	119
Jantis	Head-loads	9,292	5,718	...	3,574
Miscellaneous pieces ...	Pieces	19,229	6,423	...	12,806
Myrobalans	Khandis	6,730	14,639	7,909	...
Shikakái pods	„	120	166	46	...
Shige-bark	„	610	104	...	506

Description of Produce.		1883-84.	1884-85.	More.	Less.
Bámbús ...	... No.	4,484,058	4,301,756	...	182,302
Dry Bámbus ...	... Cart-loads	...	111	111	...
Do. ...	... Head-load	...	11,820	11,820	...
Firewood ...	... Tons	6,275	6,965	690	...
Do. ...	... Cart-loads	47,548	55,559	8,011	...
Do. ...	... Head-loads	455,370	553,294	97,924	...
Do. ...	Donkey-loads	11,034	12,670	1,636	...
Do. ...	Bullock-loads	4,385	6,304	1,919	...
Do. ...	...Horse-loads	...	1,103	1,103	...
Do. ...	... Khandis	...	25,062	25,062	...
Do. ...	... Maunds	...	56,210	56,210	...
Do. ...	... Cubic feet	904	22,794	21,890	...
Charcoal ...	... Khandis	482	1,085	603	...
Brakes for traffic carts	... No.	11,472	6,965	...	4,507
Agricultural implements Jeráit-wood ...	... No.	24,673	28,808	4,135	...
Thorns ...	... Cart-loads	959	1,805	846	...
Do. ...	...Head-loads,	1,731	430	...	1,301
Do. ...	Bullock-loads	104	16	...	88
Do. ...	... Heaps	...	153	153	...
Stones ...	... Cart-loads	20,146	32,279	12,133	...
Do. ...	... Ass-loads	...	9	9	...
Do. ...	Bullock-loads	...	1,428	1,428	...
Do. ...	... Head-loads	...	3,501	3,501	...
Do. ...	... Cubic feet	...	117,624	117,624	...
Earth ...	... Cart-loads	858	1,220	362	...
Do. ...	Buffaloe-loads	...	37	37	...
Do. ...	Bullock-loads	3,943	5,821	1,878	...
Do. ...	Donkey-loads	...	4,213	4,213	...
Do. ...	... Head-loads	1,769	1,311	...	458
Moorum ...	... Cart-loads	...	49	49	...
Reeds... ...	... Loads	2,800	13,075	10,275	...
Bábul bark ...	... Cart-loads	7	17	10	...
Tarwad bark ...	... „	...	10	10	...
Shembe bark ...	... Bundles	255	...	...	255
Bandargi bark ...	... Cart-loads	...	12	12	...
White Mimosa bark	... Head-loads	...	6	6	...
Honey ...	... Maunds	...	30	30	...
Rattan or cane ...	... Loads	486	706	220	...
Kárvi... ...	... Cart-loads	19	170	151	...
Do.	... Head-loads	...	46	46	...
Hadchari leaves ...	... Maunds.	80	...	...	80
Leaves ...	... Head-loads	6,042	5,881	...	161
Do. ...	Bullock-loads	173	195	22	...
Palmyra trees ...	... No.	134	79	...	55
Grass... ...	... Pullies	4,047	37,034	32,987	...

6.—IMPORTS AND EXPORTS OF FOREST PRODUCE.

147. There is no import of timber or other forest produce that is known of to report.

148. Timber and myrobalans are exported to Bombay from the Coast Depôts in Kánara, and the Belgaum myrobalans also all find their way to Bombay; further, beams, poles and pieces, as well as fuel, are sent from Kolába and Ratnágiri to Bombay, but the bulk of the forest produce is consumed within the Circle and Kolhápur. Some timber, but only for the Government Departments, is sent to Poona, and perhaps some of the Kánara bámbus find their way by sea from Kánara, and by rail now to Sholápur.

149. The statement asked for by the Commissioner, S. D., showing timber separately from other produce is given below:—

Kinds of Wood.	Sold during the year.		Balance of Stock on 31st March 1885.	
	Logs.	Tons.	Logs.	Tons.
Teakwood	12,605	4,438	5,150	2,212
Blackwood	327	102	207	65
Junglewood	1,943	671	1,506	503
Total ...	14,875	5,211	6,863	2,780

150. Wood in stock with the Ratnágiri School of Industry and valued at Rs. 11,167-0-4 is not included in the above, but treated as an outstanding.

151. The outturn or yield of the forests has been so fully entered into under the requirements of the code system, as concerns the preparation of this Administration Report, that it is not considered necessary to record as usual the departmental operations under a system of clean cuts and coppice under standard, it will, therefore, be sufficient to say that they are continued with great success financially, as well as in a light giving convenience to the public by affording a full and sufficient supply of small wood and fuel for all uses at moderate rates. The forest cut over is growing up well and uniformly.

Minor produce collected departmentally.

152. The myrobalan crop was estimated at 5,400 khandis in Belgaum and 4,100 in Kánara. The actual collection was, however, 4,364 khandis in Kánara, and 10,234 in Belgaum.

153. The receipts and expenditure of the two years compared are:—

District.	1883-84.					1884-85.				
	Receipts.	Expenditure.	Profit.	Value of Stock.	Total Profit.	Receipts.	Expenditure.	Profit.	Value of Stock.	Total Profit.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Belgaum	25,415	10,243	15,172	...	15,172	1,36,069	32,205	1,03,864	17,904	1,21,768
Kánara...	52,368	16,356	36,012	5,030	41,042	77,373	40,616	36,757	7,779	44,536
Total ...	77,783	26,599	51,184	5,030	56,214	2,13,442	72,821	1,40,621	25,683	1,66,304

154. The percentage of surplus to gross revenue is 78, and if the gross receipts on this account in Belgaum and Kánara alone, *viz.* Rs. 2,13,442, is considered with the gross receipts of all the other sources of revenue left in the Southern Circle, it will be found to be very nearly $\frac{1}{5}$th of it.

155. The cost of the supervising establishments is included in the expenditure column of the myrobalan statement above shown, and, moreover, it has been found possible to increase the rates for collecting, which has given intense satisfaction to the ghát people.

Kánara Saw Mills at Kanigeri.

156. During the year under report the Saw Mill worked for 258½ days only, as compared with 296½ in the previous year. The difference, however, in the quantity of rough timber cut up was trifling, that in 1883-84 being 24,112 cubic feet to 23,046 in 1884-85 or 1,066 cubic feet less.

157. The outturn also in clean sawn timber was nearly the same, 18,807 cubic feet to 19,462 in the previous year. The percentage of wastage was only 18·3 to 19·2. An error was made in paragraph 92 of last year's Administration Report setting the wastage down at 30·8 per cent.

158. But it was not only in the conversion of rough timber that less work was done at the Kanigeri Saw Mill, for the number of sleepers also turned out was but 6,282 to 12,841 in the previous year.

159. Ths reason for this unsatisfactory outturn is that the contractor, who had engaged to bring timber logs and sleeper pieces to the saw-mill, quite failed in his agreement, and were it not for the Government carts, which were taken from the other operations, the saw-mill at Kanigeri would have had to cease work altogether.

160. The receipts at the mill were Rs. 35,248 as compared with Rs. 36,423 of the previous year, but there was a reduction in the expenditure of Rs. 1,117, the total for 1883-84 being Rs. 6,756 to Rs. 5,639 in 1884-85.

161. New machinery, consisting of one 12 H. P. portable engine and two plain circular saw-benches with saw-sharpening machine, was purchased during the year at a cost of Rs. 4,753, and purposely to assist in cutting up teak sleepers for the Southern Marátha Railway Company.

162. The engine and benches were taken straight on arrival to the Forest Depôt of Kolikeri on the road-side and there put up.

163. It was worked only for the last 5 months of the year, and by a draft of men from the Kanigeri saw-mill.

164. During that time it cut up 22,767 sleepers, and the expenditure on account of wages and salaries to the workmen and hands on the machines came to Rs. 1,279, or at the rate of less than one anna each.

165. The hand-sawing rate is annas two and pies six a cut, and therefore the half-round sleeper turned out in this way cost not less than anna one and pies three each, and the rectangular not less than annas three and pies nine each.

166. The following table shows the rates realized at auction sales per khandi of 12½ cubic feet of large timber at the inland depôts during the last three years: —

	1882-83.			1883-84.			1884-85.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Haliyál Depôt.									
Teakwood	13	14	9	14	6	9	12	13	0
Blackwood	11	1	2	11	14	4	9	11	5
Junglewood	11	10	1	10	13	2	10	5	1
Singanhalli Depôt.									
Teakwood	14	1	7	15	12	10	16	4	4
Blackwood	.....			10	8	0	.....		
Junglewood	10	13	1	11	4	8	11	14	9
Khánápur Depôt.									
Teakwood	18	0	9	16	0	0	18	5	5
Blackwood	15	9	1	13	13	5	16	4	1
Junglewood	12	13	0	10	0	11	12	10	10

167. The rate charged on first selection previous to the auction sales, and all the fine timber was taken in this manner at the Haliyál Depôt by the Railway and other contractors, was—

For teak Rs. 26 per khandi.
„ blackwood „ 16 „ „
„ junglewood „ 16 „ „

and for second selection Rs. 20 for teak.

168. At the Kodibág Coast Depôt selection was made there of all the choice teak first of all on account of the Public Departments, and at the following rates :—

Superior teak Rs. 35 per khandi of 12½ cub. feet.
1st class do. „ 30 „ „
2nd „ do. „ 25 „ „
3rd „ do. „ 18 „ „

169. That sold by auction fetched an average of Rs. 24 per khandi for girdled teak, and Rs. 16-5-0 for dead wood.

CHAPTER V.

FINANCIAL RESULTS.

170. The details of the financial results and of the year's transactions are shown in the prescribed Forms Nos. 53—57 of the Forest Department Code furnished by the Accountant General, which are appended.

171. Put together, and taken from the summary receipt and expenditure Form No. 53, the financial results of the year 1884-85 compared with those of the previous one show:—

Year.	Receipts.	Charges.	Surplus or Net Revenue.
	Rs.	Rs.	Rs.
1883-84	9,02,291	4,90,011	4,12,281
1884-85	12,89,562	6,64,378	6,25,184

172. It will be seen that the gross receipts in 1884-85 are greater than in the previous year by Rs. 3,87,271, and the surplus or net revenue by Rs. 2,12,903; on the other hand the charges are more by Rs. 1,74,367.

173. The percentage proportion of surplus to gross revenue, which is the best test that economy in working is carefully looked to, is 48 in 1884-85 to 45 in 1883-84.

174. Arranged under the main heads of revenue and charges, and excluding the fractions of rupees as in the preceding statement, the following shows a more detailed comparison between the financial results of 1883-84 compared with the year under report:—

Heads of Revenue and Charges.	1883-84.	1884-85.	Increase.	Decrease
RECEIPTS.	Rs.	Rs	Rs.	Rs.
I.—Timber and other produce removed from the forests by Government Agency	6,51,777	9,32,404	2,80,627	...
II.—Timber and other produce removed from the forests by consumers or purchasers	2,41,250	3,47,863	1,06,613	...
III.—Confiscated drift and waif wood ...	3,404	4,016	612	...
IV.—Revenue from forests not managed by Government	215	472	257	...
V.—Miscellaneous	5,645	4,807	...	838
Total Receipts ...	9,02,291	12,89,562	3,87,271	838
EXPENDITURE.				
A.—Conservancy and Works.				
I.—Timber and other produce removed from the forests by Government Agency	2,38,253	3,78,589	1,40,336	...
II.—Timber and other produce removed from the forests by consumers or purchasers	23,952	30,954	7,002	...
III.—Confiscated drift or waif wood ...	138	98	...	40
IV.—Forest not managed by Government.	...	...	...	...
V.—Rent of leased forests	2,930	2,072	...	858
VI.—Live stock, stores, tools and plant ...	2,514	6,041	3,527	...
VII.—Communications and buildings. ...	28,025	8,522	...	19,503
VIII.—Demarcation, improvement and extension of forests	45,778	44,198	...	1,580
IX.—Miscellaneous	1,134	1,020	...	114
Total, A.—Conservancy and Works ...	3,42,724	4,71,494	1,50,865	22,095

Heads of Revenue and Charges.	1883-84.	1884-85.	Increase.	Decrease.
B.—Establishments.	Rs.	Rs.	Rs.	Rs.
I.—Salaries	1,09,991	1,43,964	33,973	...
II.—Travelling allowances	28,303	36,803	8,500	...
III.—Contingencies	8,993	12,117	3,124	...
Total, B.—Establishments ...	1,47,287	1,92,884	45,597	...
Total of A. and B. ...	4,90,011	6,64,378	1,96,462	22,095

175. It will be seen that the receipts have increased under every head compared with last year's, except in V. Miscellaneous which show Rs. 838 less, and are of no importance.

176. The most important increases occur under I. in Kánara on account of sleepers supplied to the Southern Marátha Railway Company, which brought in Rs. 1,37,719 more than the deliveries of last year; and again in Kánara and Belgaum on account of myrobalans, which also gave Rs. 1,54,693 more. Under I. (*d*) Sandalwood alone there was a decrease in Kánara and Dhárwár of Rs. 10,119, and because of a smaller quantity having been prepared and brought to the market.

177. Under II. all the Divisions show improvement excepting Bijápur and Ratnágiri, where in the former there is a falling off compared with last year of Rs. 6,406, and in the latter of Rs. 378. In the Kánara Divisions, Belgaum, Dhárwár and Kolába, the improved receipts under II. compared with last year's, amount to Rs. 37,473, Rs. 11,207, Rs. 10,442 and Rs. 54,275 respectively.

178. As regards the expenditure, under "A Conservancy and Works" there is an aggregate increase of Rs. 1,50,865 and a decrease of Rs. 22,095.

179. On the increase side the most important occurs in Kánara on account of the sleeper operations and larger quantity of wood compared with last year brought to the sale depôts, and again in Kánara and Belgaum, but the latter chiefly, on account of the splendid crop of myrobalans which had to be gathered and brought to the sale depôts. The crop was more than double by 1,108 khandis than that of last year, and, therefore, cost Rs. 73,171 in 1884-85 compared with Rs. 34,299 in 1883-84.

180. It has been already shown that the receipts on account of myrobalans were actually Rs. 1,54,693 more than last year, and hence the greater sum expended in the collection.

181. The additional expenditure of Rs. 7,002 compared with the previous year under II. occurred mostly in Belgaum on account of (*a*) Timber and (*b*) Firewood, and in which there has been a corresponding increase on the side of receipts.

182. The increase, under VI. Live and Dead Stock, occurs in Kánara on account of the purchase of carts, cattle and dead stock articles; and in Kolába on account of a boat to patrol the creeks and bandars which cost Rs. 1,200.

183. Under VII. Communications there has been a decrease in expenditure amounting to Rs. 19,503, and because the repairs of roads and buildings formerly met from the Forest Budget are now charged to that of the Public Works Department.

184. Under B.—Establishments, I. Salaries, the increase is owing mainly to promotion and acting allowances to the superior officers, and to the additions made to the office establishments in connection with the introduction of the Forest Department Code.

185. Under II., for the same reasons, there is an increase of Rs. 8,500. Another reason for the increase here is that all Range Officers and Foresters drew under the authority of the Civil Travelling Allowance Code the usual daily batta in addition to permanent horse allowance throughout the most of the year.

186. The increase of Rs. 3,127 under B—III is owing to the increase of the office establishments and clerical work generally in consequence of the introduction of the Forest Department Code.

CHAPTER VI.

GENERAL REMARKS.

187. The Conservator's camp was at Dowgi-Nála on the 1st April 1884, and from there, together with the Divisional Forest Officer, he saw all the operations, timber, sleepers and others, going on for several miles around.

188. On the 3rd he went into Yellápur to meet the Acting Commissioner, Mr. Moore, and the Collector, Mr. Vidal.

189. On the 5th move was made to Vincholi, and from there also, together with the Divisional Forest Officer who came from Haliyál to meet him, the timber, sleeper, and other works were visited.

190. On the 18th changed camp to Kulgi, where similar operations were seen, as well as the Bomanhalli teak plantation.

191. On the 1st May camp was made at Dandeli; on the 8th at Singargaum; and on the 9th at Jagalbet.

192. All works and the myrobalan collections were seen from each camp.

193. At Jagalbet the Collector was again met with, and stay was made till the 17th.

194. On the 18th moved to Kesroli, and visited the teak plantation at Bárchi on the way.

195. On the 19th went into quarters at Yellápur for the monsoon.

196. On the 15th November saw the Devikop cuttings and nurseries in the Dhárwár Districts, and from there marched to Hubli, and by rail to Bádámi in the Bijápur Division, which was reached on the 20th.

197. Here met the Divisional Forest Officer, Mr. Hight, and with him saw the reserves in the neighbourhood, and the Anantpur plantation.

198. Examined Divisional Office and then proceeded to Ulwa in the Kolába District, which was reached on the 25th; was met by Mr. Stewart, the Divisional Forest Officer, on the way.

199. At Ulwa saw the Collector, Mr. Keyser, and on the 28th proceeded to Uran, where Mr. Sinclair, the Forest Settlement and Demarcation Officer, was met.

200. With him and the Divisional Forest Officer saw the reserves he had selected and settled and the boundary-marks being put up. The Divisional Forest Office was examined during stay here.

201. On the 1st December camp was at Nágothna, where the wood and fuel cuttings were seen.

202. On the 3rd Dásgaum, seeing reserves on the way.

203. On the 5th proceeded to Harnai *viâ* Bánkot.

204. At Harnai met the Divisional Forest Officer, Mr. Ryan, and saw parts of the Dápoli reserves. Gave him instructions how to raise and thickly plant kurunda (carissa carandas), which grows into a large evergreen shrub, under teak.

205. Saw the Forest Settlement Officer, Mr. Logan, also here.

206. Left Harnai by steamer and proceeded to Ratnágiri. Here saw the Collector, Mr. Ebden, and on the 11th left for Kárwár by steamer.

207. Saw the Collector at Kárwár, and on the 14th, along with Mr. Bell, a home-trained officer posted to the Southern Circle and picked up at Ratnágiri, saw the timber depôt at Kodibág, and the fuel cuttings along the Kálinadi to Kádra.

208. On the 15th inspected the Kádra plantations with Mr. Bell, and the next day the operations along the river to Sulegeri where the teak plantations were also visited.

209. On the 17th arrived at Yellápur *viâ* the Ganeshgudi Ghát.

210. Remained Christmas at Yellápur, and on the 7th January 1885 moved camp to Mundgod, and on the 8th to Singanhalli where the Divisional Forest Officer, Mr. Woodrow, was met.

211. Examined the large sleeper and timber operations there, and on the 17th moved camp to Honkan in the Dhárwár District, *viâ* Hángal, where the Divisional Forest Officer, Mr. Barrett, was met.

212. On the 22nd, and in consequence of a telegram received from Government House, retraced steps, *viâ* Yellápur and Haliyál, to Dhárwár and there the Conservator put himself in communication with the Assistant Resident at Hyderabad regarding an expected visit by the Crown Prince of Sweden and Norway, and his suite, to Kánara for sport.

213. Returned to Haliyál, and on the 27th changed camp to Kulgi, together with the Divisional Forest Officer; thence to Samzoda on the 31st; Jagalbet on the 1st February; Castle Rock, where the Southern Marátha meets the Goa Railway, on the 2nd; and Sitawda in the Belgaum District on the 3rd.

214. On the way the railway line was followed, and the adjoining forests on both sides inspected in view to the future supply of fuel required for the locomotives.

215. On the 4th Nagargali, also a station on the line in Belgaum, was reached, and there the Conservator met Mr. MacGregor, the Divisional Forest Officer, by appointment.

216. After consulting Mr. MacGregor regarding fuel supplies and sleepers for the railway the Conservator left for Haliyál on the 6th, and thence proceeded to Gunjawati on the 15th, *viâ* Sambrani, Bhagwati and Yellápur.

217. From Gunjawati sent camp to Singanhalli and proceeded there through the forests, seeing the timber and sleeper operations.

218. On the 20th proceeded to Hángal in the Dhárwár District and from thence to Chikanji, where the Collector, Mr. Middleton, was met on the 24th.

219. Thence to Byádgi inspecting the reserves recently acquired, and from there to Dasankop and Sirsi, which was reached on the 4th March.

220. Next day left for Yellápur, *viâ* Manchikeri where Mr. Candy and the Forest Settlement Officer, Mr. Gleeson, was met and consulted about the forest settlement of the Yellápur Range.

221. On the 11th proceeded to Kirwatti, thence to Hosali and from there to Telegeri, where, with the Divisional Forest Officer of the Central Division of Kánara and Mr. Bell, the Conservator's camp was on the 31st March 1885.

222. The Conservator has much to be indebted to the Collectors of the Southern Circle for their ready co-operation with him, and to the Divisional Forest Officers for the very satisfactory manner they performed their several duties throughout an unusual heavy season of work.

223. In the Kolába District especially, both Mr. Keyser, the Collector, and Mr. Sinclair, the Forest Settlement and Demarcation Officer, have been most kind and helping in the many difficult matters for settlement there, and Mr. Stewart, the Divisional Forest Officer, deserves praise for the painstaking and zealous manner he has attended to his duties.

224. Many solid advantages have been conferred on the people of the Kolába and other districts in several of the Government Resolutions recently passed on the subject of forests, and it is believed that with the completion of the present forest settlement after the manner already begun, and that as these advantages are well understood and loyally given effect to, the bulk of the people at least will have good reason to be satisfied.

225. The health of the subordinate establishments has on the whole been good, and with few exceptions both office and protective have attended to their duties right well.

226. The office establishments especially have worked hard, and though added to considerably, yet, from the Code system of accounts being new, the hands, and more particularly the Head Clerks in the Divisional Offices in Kánara and Belgaum, have often worked early and late beyond office hours.

227. In the Conservator's office the work has been particularly heavy and his second clerk, Mr. Datátraya Manjunáth Bijur, more than all has shown great aptitude in his duties and gives high promise of excellence.

228. Among the Range Officers who deserve mention, first of all comes Mr. Sheshu Munju of Sirsi, who is ever ready and full of resource in times of difficulty, and then Mr. Eshwantráo and Ghosekhán (the latter an Inámdár of good family in Dhárwár) of Yellápur and Haliyál in the Kánara Divisions, and Mr. Bálkrishna Dámodhar of Khánápur in the Belgaum Division.

229. Their work was unusually heavy during the year under report, and because enormous quantities of wood had to be collected and cut up into sleepers and despatched to the Southern Marátha Railway Company, as well as also an unusually heavy myrobalan crop to be collected departmentally.

230. It is only justice to specially mention the good and excellent services done by the Range Officers named.

W. PEYTON, Colonel,

Conservator of Forests, Southern Circle.

Conservator's Office, S. C.,
Camp Yellápur, Kánara District, 15th October 1885.

APPENDIX A.

Instructions for observance relating to the better control of fires, grazing, and general treatment in Reserved Forests.

1st. All properly constituted Reserved Forests shall have their limits well defined by broad cleared lines of not less than 30 feet, and on no account shall grazing be allowed within them between the 1st February and 5th June in each year.

2nd. All recognized rights of way through Reserved Forests, and to which people shall be restricted, shall be fire traced on both sides beginning from the 1st February or other such later date as will in the opinion of the District Forest Officer secure the Reserved Forests against chance fires originating with travellers.

3rd. Cartmen or other people shall not be allowed to encamp in any Reserved Forest during the time of fire conservancy—that is to say between the 1st February and 5th June in each year—except at such cleared places or camps as shall be prepared for the purpose by the department along public roads.

4th. In all such parts of Reserved Forests as are set apart for the cutting and removal of bámbus &c., there shall be certain recognized camps, and on no account shall bámbus be cut and removed from other parts than those laid down, or the people encamp elsewhere than at the camps specially cleared for the purpose.

5th. In addition to the restriction stated in the concluding part of clause 1 of this paragraph—that is to say that the grazing of cattle &c. shall not be permitted between the 1st February and 5th June of each year—a District Forest Officer may with the sanction of the Conservator of Forests close throughout the whole year, and for an unlimited period, any such parts of the Reserved Forests as it may be necessary for the purpose of regeneration. Such parts shall be strictly closed all throughout the year against trespass of every kind, and, in addition to the broad cleared lines required to delimit all Reserved Forests other boundary-marks—such as cairns and boards $30'' \times 12'' \times 2''$ let into trees along the lines—shall be erected so as to prevent the possibility of mistake as regards intention. In strictly closed portions of the Reserved Forests for an indefinite period throughout the whole year naked lights shall not on any account be permitted.

6th. In all permits issued authorizing grazing in the forests no matter in whatever parts, whether Reserved or Protected, the restrictions entered at clause I of this paragraph—that there shall be no grazing allowed in any Reserved Forest between the 1st February and 5th June— and in clause 5—that there shall be no grazing or trespass at all of any kind permitted in the parts indefinitely closed for regeneration purposes—shall be clearly entered in every case, and so that want of information or ignorance of the instructions now issued cannot be pleaded in excuse in case of breach of them.

W. PEYTON, Colonel,

Conservator of Forests, Southern Circle.

List of Statements accompanying the Annual Administration Report of the Conservator of Forests, Southern Circle, for 1884-85.

A	Statement showing the progress of forest settlement and demarcation work up to 1st April 1885.
B	Statement showing the number of cases taken into Courts as well as those compounded under Section 67 of the Forest Act during the year 1883-84 and 1884-85.
Form No. 49	Area of Reserved Forests.
49 A	Do. of Protected Forests.
50	Do. of Plantations.
51	Do. of forest tracts protected from fire.
52	Prosecutions for breaches of Forest Rules.
53	Summary of revenue and expenditure during 1884-85.
54	Account Current for 1884-85.
55	Outstandings and liabilities on account of Contractors and Disbursers for 1884-85.
56	Revenue received and outstandings on account of revenue during 1884-85.
57	Financial results of the year.
58	Trees felled by Government Agency.
59	Outturn of timber and other produce.
60	Timber, &c., received in Sale Depôts.
61	Sales of timber, &c., cut and collected by Government Agency.
62	Account of timber, &c., in Sale Depôts and sold locally.
63	Timber, &c., cut, collected and removed from forests by consumers or purchasers.
64	Revenue derived from and expenditure incurred on timber, &c., sold from Depôts to Public Departments.
65	Abstract showing the value of timber, &c., at Sale Depôts.

W. PEYTON, Colonel,
Conservator of Forests, S. C.

A.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Statement showing the progress of the Forest Demarcation and Settlement Work up to 1st April 1885.

Circle.	Districts.	AREA ORIGINALLY AND AS A PRELIMINARY MEASURE TO FINAL SETTLEMENT DECLARED UNDER FOREST ACT, 1878.						AREA FINALLY DISPOSED OF UP TO THE 1ST APRIL 1885.						AREA REMAINING TO BE DEALT WITH.						REMARKS.
		Reserved Forest.		Protected Forest.		Total of both.		Reserved Forest.		Protected Forest.		Total of both.		Reserved Forest.		Protected Forest.		Total of both.		
		Square Miles.	Acres.	Square Miles.	Acres	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	
SOUTHERN CIRCLE.	Kánara	466	197	3,048	35	3,514	232	683	447	322	104	1,005	551	...	...	2,508	321	2,508	321	
	Belgaum	399	187	262	28	661	215	184	198	98	116	282	314	372	42	6	499	378	541	
	Dhárwár	169	235	262	543	432	138	171	425	260	353	432	138	...	...	...	...	...	...	
	Bijápur	155	203	89	409	244	612	...	...	...	...	...	...	155	203	89	409	244	612	
	Kolába	275	390	119	96	394	486	...	...	...	...	...	...	275	390	119	96	394	486	
	Ratnágiri	20	13	...	...	20	13	...	...	...	...	...	...	20	13	...	...	20	13	
	Total ...	1,485	585	3,781	471	5,267	416	1,039	430	680	573	1,720	363	823	8	2,724	45	3,547	53	

Conservator's Office, S. C.,
Camp Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, S. C.

Statement showing the Number of Cases taken into Courts as well as those compounded under Section 67 of the Forest Act, VII. of 1878.

Division.	Year.	Number of Cases			Remarks.
		Taken into Court.	Compounded under Section 67 of the Forest Act.	Total.	
Northern Division of Kánara	1883-84	6	.....	6	
	1884-85	3	2	5	
Central Division of Kánara	1883-84	13	7	20	
	1884-85	9	7	16	
Southern Division of Kánara	1883-84	8	3	11	
	1884-85	2	25	27	
Belgaum	1883-84	44	9	53	
	1884-85	34	18	52	
Dhárwár	1883-84	31	3	34	
	1884-85	14	7	21	
Bijápur	1883-84	26	31	57	
	1884-85	10	46	56	
Kolába	1883-84	40	146	186	
	1884-85	30	214	244	
Ratnágiri	1883-84	17	19	36	
	1884-85	43	40	83	
Total ...	1883-84	185	218	403	
	1884-85	145	359	504	

Conservator's Office, Southern Circle,
Camp Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, S. C.

FORM No. 49.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Area of Reserved Forests, 1884-85.

Division or Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1885.		No. and Date of Notification of Addition or Transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Northern Division of Kánara.	Kánara ...	Haliyál and Kárwár	298,437	466	...	...	298,437	466		
Central Division of Kánara.	Do. ...	Mundgod and Ankola	117,359	184	...	...	117,359	184		
Southern Division of Kánara.	Do. ...	Sirsi	21,771	34	...	...	21,771	34		
Belgaum ...	Belgaum ...	Khánápur, Belgaum, Chikodi, Gokák, Sampgaon and Athni.	315,623	493	65	658	315,030	492	No. 1806 of 2nd March 1885.	
Dhárwár ...	Dhárwár ...	Dhárwár, Kalghatgi, Hángal, Bankápur, Gadag, Kod, Ron, Nargund, Hubli and Ránebennur.	109,865	172	...	...	109,865	172		
Bijápur ...	Bijápur ...	Bádámi, Hungund, Bijápur, Bágevádi, Muddebihál and Indi.	99,403	155	...	...	99,403	155		
Ratnágiri ...	Ratnágiri ...	Dápoli, Khed, Rájápur, Málvan, Chiplun and Sangameshvar.	12,813	20	...	...	12,813	20		
Kolába... ...	Kolába ...	Alibág, Panvel, Pen, Roha, Mahád and Mángaon.	176,775	276	...	385	176,390	276		
		Total ...	1,152,046	1,800	65	1,043	1,151,068	1,799		

Conservator's Office, Southern Circle,
... Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM NO. 49. A.

Forest Department, Southern Circle.

Area of Protected Forests, 1884-85.

Division or Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1885.		No. and Date of Notification of Addition or Transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Northern Division of Kánara.	Kánara	Supa	462,944	723	...	...	462,944	723		
Central Division of Kánara.	Do.	Yellápur, Mundgod, Kumta and Ankola.	568,220	888	...	...	568,220	888		
Southern Division of Kánara.	Do.	Sirsi, Siddápur, Honávar and Bhatkal.	802,438	1,254	...	...	802,438	1 254		
Belgaum	Belgaum ...	Belgaum, Chikodi, Gokák and Sampgaon.	83,371	130	...	...	83,371	130		
Dhárwár	Dhárwár ...	Dhárwár, Kalghatgi, Bankápur, Kod, Hángal, Gadag, Ránebennur and Karajgi.	197,427	308	...	...	197,427	308		
Bijápur	Bijápur	Bágalkot, Hungund Bijápur, Bágevádi and Indi.	57,369	90	...	...	57,369	90		
Kolába	Kolába	Alibág, Pen, Roha, Mángaon, Nágothna, Mahád and Panvel.	77,418	121	...	1,162	76,256	119		
		Total ...	2,249,187	3,514	...	1,162	2,248,025	3,512		

Conservator's Office, Southern Circle,
Dated Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 50.

Forest Department, Southern Circle.

Area of Plantations, 1884-85.

Division.	Name of Plantation.	On 1st April 1884.		Added during 1884-85.		On 31st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
	Regular Plantations.							
Northern Division of Kánara.	Kadra	357	44,923	...	952	357	45,875	Cost incurred during the year was on account of upkeep of plantation and establishment.
	Mardi...	110	29,527	...	272	110	29,799	
	Sulgeri	110	6,962	...	789	110	7,751	
	Kárwár	118	11,810	...	147	118	11,957	
	Bingi	20	2,826	...	196	20	3,022	
	Barchi	221	22,076	...	373	221	22,449	
	Singatgeri	83	11,094	..	279	83	11,373	
	Bomanhalli	200	4,261	...	84	200	4,345	
Central Division of Kánara.	Devarbail teak plantation	15	5,455	...	191	15	5,646	
	Arbail teak plantation	5	439	...	...	5	439	
Southern Division of Kánara. Belgaum	Kasarkod	40	991	85	2,385	125	3,376	
	Bidi	16	101	...	...	16	101	
Bijápur	Anantapur	70	5,431	12	490	82	5,921	
	Mamdápur	150	7,294	10	392	160	7,686	
Kolába	Warsoli	10	358	...	75	10	433	
	Rámdharni	50	161	...	46	50	207	
	Rájwádi	12	3,514	...	4	12	3,518	
	Total, Regular Plantations	1,587	1,57,223	107	6,675	1,694	1,63,898	
	Cultural Operations.							
Central Division of Kánara.	Sahasrwali	12	453	...	...	12	453	
	Yelláp ur	26	1,488	...	385	26	1,873	
	Harwada	...	...	1	19	1	19	
Southern Division of Kánara.	Banvási	27	593	...	...	27	593	Abandoned for many years past.
	Anegundi	7	350	...	...	7	350	
	Kalkatti	2	152	...	1	2	153	
Belgaum	17 villages in Khánápur	90	...	...	...	90	...	Kumri cultivation under the British Burma Toungya system.
	3 villages in Belgaum	22	...	...	..	22	...	
	Kalasgadde	13	529	...	33	13	562	
	Deshnur	...	6,802	...	82	...	6,884	
	Tigadi	...	1,046	...	...	...	1,046	
Dhárwár... ...	Holtikota	34	3,984	...	48	34	4,032	
	Salkinkop	152	6,693	...	198	152	6,891	
	Gongdikop	28	2,351	...	...	28	2,351	
	Saptapur	35	1,342	...	...	35	1,342	
	Kelgeri	21	200	..	222	21	422	
	Kalghatgi	399	3,684	...	122	399	3,806	
	Ichanhalli	86	3,515	...	123	86	3,638	
Bijápur	Mamdápur	170	2,194	...	192	170	2,386	
	Kaládgi	170	2,428	25	257	195	2,685	
Kolába	Alibág	5	190	...	62	5	252	
	Satad...	...	...	81	197	81	197	
Ratnágiri ...	Dápoli	73	15	142	64	215	79	
	Khed	23	...	20	12	43	12	
	Chiplún	17	...	11	32	28	32	
	Sangmeshvar ...	55	...	55	17	110	17	
	Málvan	148	...	51	56	199	56	
	Total, Cultural Operations	1,615	38,009	386	2,122	2,001	40,131	
	Grand Total ...	3,202	1,95,232	493	8,797	3,695	2,04,029	

Conservator's Office, Southern Circle,
Dated Yelláp ur, Kánara District, the 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 51.

Forest Department, Southern Circle.

Area of Forest Tracts protected from Fire during the dry Season of 1885.

Division.	Forest Tracts.	Up to 15th June 1884.		During dry Season of 1885.				Total Cost up to 15th June 1885.	Year in which protection commenced.	Remarks.
		Area actually protected.	Total Cost.	Area attempted to be protected.	Failure.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Northern Division of Kánara.	Kárwár	....	....	136,964	98	136,866	....	....		* No extra expenses were incurred.
	Supa	....	....	462,720	96,000	366,720	....	....	1884-85	
	Haliyál	....	....	160,726	9,402	151,324	753 4 3	753 4 3	..	
	Total ..	....	....	760,410	1,05,500	654,910	753 4 3	753 4 3	..	
Central Division of Kánara.	Yellápur	....	....	3,840	1,920	1,920	8 14 6	8 14 6	1884-85	
	Mundgod	9,600	47 12 0	15,360	7,040	8,320	48 8 6	96 4 6	1881-82	
	Total ..	9,600	47 12 0	19,200	8,960	10,240	57 7 0	105 3 0	..	
thern Division of Kánara.	Sirsi	....	....	301,120	19,200	281,920	....	....	..	
	Siddápur	....	....	179,200	32,000	147,200	....	....	..	
	Honávar	....	....	197,120	16,000	181,120	....	....	..	
	Total ..	....	....	677,440	67,200	610,240	....	....	..	
aum	Khánápur	....	....	152	....	152	10 0 0	10 0 0	1884-85	Up to 31st March 1885.
	Belgaum	....	....	961	1	960	8 13 0	8 13 0	Do.	
	Chikodi	....	....	1,250	....	1,250	47 3 0	47 3 0	Do.	
	Gokák and Sampgaon	....	....	285	....	285	71 1 0	71 1 0	Do.	
	Total ..	....	....	2,648	1	2,647	137 1 0	137 1 0	..	
wár	Dhárwár	16,000	69 1 6	32,048	12,048	20,000	229 14 6	299 0 0	1883-84	
	Kalghatgi	9,710	213 9 0	49,540	29,858	19,682	221 12 9	435 5 9	Do.	
	Bankápur	16,402	41 4 0	24,116	1,913	22,203	109 6 6	150 10 6	Do.	
	Hángal	4,046	18 12 0	6,441	515	5,926	108 12 0	127 8 0	Do.	
	Total ..	46,158	342 10 6	112,145	44,334	67,811	669 13 9	1,012 8 3	..	
ur	Bádámi	100,159	336 0 0	100,159	87	100,072	25 0 0	361 0 0	1874	
	Bágalkot	56,613	325 0 0	56,613	....	56,613	24 0 0	349 0 0	Do.	
	Total ..	156,772	661 0 0	156,772	87	156,685	49 0 0	710 0 0	..	
ágiri	Dápoli	2,753	....	2,739	18	2,721	....	....	..	
	Chiplún	261	....	261	....	261	....	....	..	
	Sangameshvar	2,762	....	2,762	77	2,685	....	....	..	
	Málvan	4,389	....	391	141	250	....	....	..	
	Total ..	10,165	....	6,153	236	5,917	....	....	..	
ba	Alíbág	....	....	34,133	615	33,518	8 11 0	8 11 0	1884	
	Pen and Nágothna ..	....	....	71,250	220	71,030	4 6 0	4 6 0	..	
	Roha	....	....	39,153	67	39,086	1 8 0	1 8 0	..	
	Mahád	....	....	30,999	301	30,698	....	....	..	
	Panvel	....	....	47,663	130	47,533	16 10 3	16 10 3	..	
	Total ..	....	....	223,198	1,333	221,865	31 3 3	31 3 3	..	
	Grand Total ..	222,695	1,051 6 6	1,957,966	2,27,651	1,730,315	1,697 13 3	2,749 3 9	..	

Charged in previous years	1,051 6 6
Do. during the year	1,697 13 3
Total ..	2,749 3 9

Conservator's Office, Southern Circle,
Camp Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 52.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Prosecutions for Breaches of Forest Rules during 1884-85.

Forest Division and Civil District.	Cases pending from 1883-84.	New Cases of the Year.					Total cases.	Disposed of during the Year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Kánara District.														
Northern Division of Kánara	...	...	2	...	1	3	3	3	3	...	...	3	3	...
Central Division of Kánara	...	...	9	...	...	9	9	8	11	1	4	9	15	...
Southern Division of Kánara	...	...	2	...	...	2	2	1	1	1	2	2	3	...
Belgaum District.														
Belgaum Division	..	...	23	8	3	34	34	28	46	6	11	[illegible]	57	...
Dhárwár District.														
Dhárwár Division	1	...	13	1	...	14	15	1[illegible]	18	.	...	14	18	1
Bijápur District.														
Bijápur Division	...	...	8	2	...	10	10	8	25	2	14	10	39	...
Kolába District.														
Kolába Division	5	...	26	...	4	30	35	12	30	18	21	30	51	5
Ratnágiri District.														
Ratnágiri Division			32	4	-	45	45	36	51	7	17	43	68	2
										35	69	145	254	8

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 53.

Forest Department, Southern Circle.

Summary of Revenue and Expenditure of the different Divisions during the year 1884-85.

Budget Heads.	Direction.	Belgaum Division.	Dhárwár Division.	Kaládgi Division.	Central Division, Kánara.	Northern Division, Kánara.	Southern Division, Kánara.	Kolába Division.	Ratnágiri Division.	Total.
REVENUE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a p.	Rs. a. p.
I.—Timber and other Produce removed from the Forests by Government agency.										
a Timber	....	34,783 4 1	59,968 9 10	....	1,84,013 12 2	2,87,460 5 7	1,01,777 3 0	28,187 2 3	7,334 15 6	7,03,525 4 5
b Firewood and Charcoal ..	....	8 0 0	....	12 0 0	3,404 9 6	2,775 2 8	2 8 0	2,768 9 7	71 13 3	9,042 11 0
c Bamboos	....	....	....	....	....	....	....	....	....	....
d Sandalwood	....	0 6 0	379 4 6	0 6 0	2,564 8 5	....	2,620 3 8	....	....	5,564 12 7
e Grass and other minor produce	....	1,36,068 8 5	....	4 0 0	8,007 1 10	33,359 4 4	36,007 7 9	704 5 5	120 2 0	2,14,270 13 9
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers.										
a Timber	....	15,938 3 7	1,481 15 0	1,220 3 0	5,959 11 1	22,301 10 1	23,003 11 0	37,564 9 11	173 15 1	1,07,643 14 9
b Firewood and Charcoal ..	....	30,360 9 6	13,205 12 1	11,166 7 10	2,768 3 6	13,308 2 9	3,009 2 3	23,004 15 7	42 9 6	96,865 15 0
c Bamboos	....	6,712 13 4	6,725 5 8	2 0 0	12,028 2 8	22,277 6 0	2,165 5 0	....	....	49,911 0 8
d Grazing and fodder Grass ..	....	16,444 10 10	25,542 15 6	2,596 12 0	7,642 14 9	6,179 6 9	9,133 0 6	2,517 4 1	247 4 0	70,304 4 5
e Other minor produce	....	2,072 14 9	1,901 2 7	2,972 8 8	9,271 3 10	2,850 6 4	1,848 14 5	2,168 11 8	52 4 3	23,138 2 6
III.—Confiscated, Drift and Waif Wood	....	43 8 6	91 10 0	43 4 9	294 2 10	1,373 7 8	494 6 2	1,259 8 2	415 14 10	4,015 14 11
IV.—Revenue from Forests not managed by Government—										
a Duty on Foreign Timber and other forest produce	....	....	....	....	....	....	....	....	117 4 11	117 4 11
b Revenue from shared and private forests	....	....	....	....	....	....	11 10 0	322 3 4	20 9 11	354 7 3
V.—Miscellaneous—										
a Fines and forfeitures ..	....	23 2 5	....	116 2 9	45 12 6	98 13 5	....	1,713 11 3	92 0 3	2,089 10 7
b Refunds	30 0 9	52 14 3	0 10 4	....	53 13 0	32 5 0	4 14 1	17 6 5	....	191 15 10
c Other sources	6 14 0	144 15 2	287 7 0	34 0 0	795 1 0	481 12 7	91 8 5	659 13 7	24 0 1	2,525 7 10
TOTAL REVENUE ..	36 14 9	2,42,653 14 10	1,09,584 12 6	18,167 13 0	2,36,849 1 1	3,92,498 3 2	1,80,169 14 3	1,00,888 5 3	8,712 13 7	12,89,561 12 5
EXPENDITURE.										
A.—CONSERVANCY AND WORKS.										
I.—Timber and other Produce removed from the Forests by Government agency.										
a Timber	....	12,857 7 7	20,506 7 7	....	1,05,916 13 1	1,14,692 13 4	38,166 4 8	7,068 13 5	1,006 11 3	3,00,215 6 11
b Firewood and Charcoal ..	....	74 4 0	....	9 0 0	377 2 0	2,025 14 3	....	1,542 8 5	....	4,028 12 8
c Bamboos	....	....	....	....	....	....	....	....	....	....
d Sandalwood	....	....	367 14 8	....	551 15 3	....	253 15 0	....	....	1,173 12 11
e Grass and other minor produce	....	32,205 5 6	....	34 10 0	3,003 1 10	19,861 10 4	17,751 6 6	270 1 6	44 6 0	73,170 9 8
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers.	....	15,841 4 8	9,404 6 2	1,693 14 7	1,007 13 0	671 14 0	435 6 9	1,899 5 2	....	30,954 0 4
III.—Confiscated, Drift and Waif Wood.	....	0 13 6	....	....	14 11 5	9 8 5	8 9 6	6 14 6	57 14 10	98 8 2
IV.—Revenue from Forests not managed by Government—										
a Duty on foreign Timber and other forest produce ..	....	....	....	....	....	....	....	....	....	....
b Revenue from shared and private forests	....	....	....	....	....	....	....	....	....	....
V.—Rent of Leased Forests and Payments to Shareholders in Forests managed by Government.	....	....	....	....	....	....	....	2,072 7 8	....	2,072 7 8
VI.—Live-stock, Stores, Tools and Plant—										
a Purchase of Cattle	....	....	....	....	488 4 0	....	....	30 0 0	....	518 4 0
b Feed and keep of Cattle ..	....	....	....	....	876 1 3	138 1 8	....	28 8 2	....	1,043 11 1
c Stores, Tools and Plant ..	....	1 8 0	47 5 0	....	2,554 4 8	254 3 9	59 8 0	1,562 14 3	....	4,479 11 8
VII—Communications and Buildings—										
a Roads and Bridges	....	132 9 0	107 6 0	1 7 5	658 8 1	382 13 0	670 15 3	....	50 13 0	2,004 7 9
b Buildings	....	2,037 0 6	616 0 7	150 0 0	1,632 10 4	550 5 10	1,027 8 0	24 4 9	3 6 0	6,041 4 0
c Other Works	....	211 15 0	59 12 7	....	10 0 0	....	190 0 0	4 9 6	....	476 5 1
Carried over ..	....	63,362 3 9	31,109 4 7	1,889 0 0	1,17,091 4 11	1,38,587 4 7	58,563 9 8	14,510 7 4	1,163 3 1	4,26,276 5 11

FORM No. 53—*continued.*

Budget Heads.	Direction.	Belgaum Division.	Dhárwár Division.	Kaládgi Division.	Central Division, Kánara.	Northern Division, Kánara.	Southern Division, Kánara.	Kolába Division.	Ratnágiri Division.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a.	
Brought forward ..	....	63,362 3 9	31,109 4 7	1,889 0 0	1,17,091 4 11	1,38,587 4 7	58,563 9 8	14,510 7 4	1,163 1	
EXPENDITURE—continued.										
Conservancy and Works —*continued.*										
VIII.—Demarcation, Improvement and Extension of Forests.										
(a) Demarcation	....	550 7 0	2 6 6	....	525 14 0	87 10 10	646 5 2	421 9 0	1 2 0	2
(b) Compensation for Land and Rights	....	....	123 0 0	....	....	....	....	....	....	1
(c) Surveys and Working Plans.	....	1,371 6 4	60 4 6	....	1,744 0 3	....	1,464 10 1	2 10 0	....	4,642 1
(d) Plantations	....	115 8 0	41 10 0	1,215 12 6	662 4 4	2,192 14 2	2,417 3 9	368 1 1	185 7 1	7,198 12
(e) Protection from Fire ..	....	137 1 0	504 12 6	49 12 9	48 8 6	1,497 0 9	....	31 3 3	0 12 0	2,269 2 9
(f) Other Works	....	1,566 0 11	1,629 6 11	2,569 4 9	1,303 8 6	1,551 5 10	861 7 6	15,391 4 1	2,856 3 11	27,728 10 5
IX.—Miscellaneous.										
(a) Refunds	....	....	....	....	....	....	....	....	....	....
(b) Law Charges	....	0 14 0	....	....	19 8 8	....	....	26 5 3	83 8 0	130 3 11
(c) Other Charges	....	412 8 2	26 7 8	....	165 9 2	2 8 0	6 12 9	274 5 2	1 12 3	889 15 2
Total, A—Conservancy and Works.	....	67,516 1 2	33,497 4 8	5,723 14 0	1,21,560 10 4	1,43,918 12 2	63,960 0 11	31,025 13 2	4,292 0 4	4,71,494 8 6
B.—Establishments.										
I.—Salaries.										
(a) Conservators	17,764 10 1	....	....	....	....	....	....	....	....	17,764 10 1
(b) Superior Officers	....	12,726 12 5	10,800 0 0	8,388 8 9	9,430 13 4	8,454 0 8	8,625 3 7	6,034 10 10	3,120 0 0	67,580 1 7
(c) Subordinate Forest and Depôt Establishments ..	....	5,727 13 4	3,628 14 11	1,223 1 2	4,838 3 5	7,422 15 2	4,329 7 8	4,901 2 0	3,389 7 9	34,461 1 5
(d) Office Establishments ..	3,677 14 7	1,949 12 8	1,448 11 9	948 10 8	3,317 3 6	3,086 8 11	3,000 13 7	3,529 4 1	2,123 0 9	23,082 0 6
(e) Deputation and Special Allowances	....	....	....	....	1,075 12 11	....	....	....	....	1,075 12 11
II.—Travelling Allowances.										
(a) Conservators	2,507 4 5	....	....	....	....	....	....	....	....	2,507 4 5
(b) Superior Officers	....	1,923 13 11	1,800 0 0	1,460 15 4	2,758 2 9	3,221 14 9	2,552 14 5	1,812 2 0	1,647 7 9	17,182 6 11
(c) Subordinate Forest and Depôt Establishments ..	....	998 1 7	1,244 8 0	487 7 11	1,424 13 6	1,533 5 5	883 9 11	2,080 3 5	821 0 0	9,473 1 9
(d) Office Establishments ..	1,542 2 4	438 0 0	397 1 7	388 5 4	1,208 8 11	855 6 10	1,087 3 0	912 3 7	810 14 2	7,639 13 9
III.—Contingencies.										
(a) Stationery	12 13 0	234 13 6	288 7 6	35 7 3	322 8 10	247 10 1	339 6 11	473 9 0	217 13 1	2,172 9 2
(b) Carriage of Tents and Records	671 0 8	203 4 3	144 12 8	185 9 8	273 14 4	354 15 6	305 6 0	301 6 9	292 14 6	2,733 4 4
(c) Rents, Rates, and Taxes ..	....	291 13 6	284 0 0	110 8 0	268 6 0	....	2 14 5	366 13 5	263 3 7	1,587 10 11
(d) Pay of Police Guards ..	....	....	....	....	....	....	....	....	....	....
(e) Official Postage	319 7 0	226 2 0	277 8 0	85 12 0	343 1 0	225 4 0	372 1 0	515 10 0	265 8 0	2,630 5 0
(f) Sundries	381 3 8	807 11 3	358 4 0	206 5 1	103 3 3	188 6 9	458 0 9	262 0 3	228 3 11	2,993 6 11
Total, B.—Establishments ..	26,876 7 9	25,533 2 5	20,672 4 5	13,520 11 2	25,364 11 9	25,590 8 1	21,957 1 3	21,139 1 4	12,179 9 6	1,92,883 9 8
Grand Total of Expenditure ..	26,876 7 9	93,049 3 7	54,169 9 1	19,244 9 2	1,46,925 6 1	1,69,509 4 3	85,917 2 2	52,214 14 6	16,471 9 10	6,64,378 2 5

Bombay, dated 29th August 1885.

T. W. RAWLINS,
Accountant General.

FORM No. 54.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Account Current for the year 1884-85.

Dr. *Cr.*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Cash Balance—			By 3 Refunds and Drawbacks—		
„ I. Land Revenue—			Refunds Divided Heads—		
			Forest	.....	(a) 8,550 1 0
			„ 13 Forest	.....	6,64,378 2 5
Miscellaneous—					
Miscellaneous Receipts	.....	5,803 14 1	„ 14 Registration—		
			District charges, Contingencies ...	.....	20 8 9
„ VI. Provincial Rates—			„ Revenue Deposits—		
Rates and Cesses on lands (Local)—			Revenue Deposits	3,000 0 0	
Districts Road Cess... ...	35 2 0		Forest Deposits	8,872 8 0	
Education Cess	17 9 0				11,872 8 0
Other Cesses	386 12 0		Advances Repayable—		
		439 7 0	Advances Recoverable, Forests ...	4,05,299 6 0	
„ IX. Forest	.....	12,89,561 12 5	Revenue Advances—		
			Cost of Survey Marks	801 3 11	
„ XV. Law and Justice—			Tentage Advances	380 0 0	
Jails, Jail Manufactures ...	.....	41 0 0			4,06,480 9 11
„ XXI. Interest—			„ Suspense Account.	.....	6,195 12 5
Interest on arrears of Revenue ...	.....	88 6 11			
Revenue Deposits—Forests ...	.....	8,910 9 7	„ Cheques and Bills—		
			Forest Cheques	.....	2,334 6 2
„ Advances Repayable—					
„ Advances Recoverable, Forests	3,98,343 15 5		Forest Remittances—		
			Remittances to Treasuries	9,68,978 10 9	
„ Revenue Advances—			Inter-divisional Transfers	1,10,308 11 7	
Cost of Survey Marks...	837 1 8				10,79,287 6 4
Objection Book Advances	803 7 5		„ Account between Bombay and Marine—		
Tentage Advances	180 0 0		IV. Items adjustable by Marine	.....	12,409 3 8
		4,00,164 8 6	„ Account between Bombay and Military Bombay—		
Suspense Account	.....	6,195 12 5	IV. Items adjustable by Military	.....	1,687 14 0
Carried over ...	.....	17,11,205 6 11	Carried over ...	.....	21,93,216 8 8

(a) The total of Forest Refunds of Southern Circle is Rs. 12,562-3-3, Rs. 4,012-2-3 having been debited through the Treasury Accounts.

FORM No. 54—*continued.*

Dr. *Cr.*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
Brought forward ...	.....	17,11,205 6 11	Brought forward ...	.....	21,93,216 8 8
To Cheques and Bills—			By Account between Bombay and Public Works Department, Ordinary Branches—		
Forest Cheques	.....	6,62,512 15 6	Bombay, IV.—Items adjustable by Public Works Department	.....	10,287 2 7
„ Forest Remittances—					
Remittances to Treasuries	.....		„ Account between Bombay and Public Works Department, Railway Branches, Southern Marátha Railway—		
Inter-divisional Transfers	1,10,307 12 7				
Inter-departmental Transfers	1,784 13 1				
		1,12,092 9 8	IV. Items adjustable by Public Works Department	.....	2,82,792 7 3
Account between Bombay and Marine, IV.—			„ Cash Balance	.....	241 1 6
Items adjustable by Marine	.....	192 0 0			
„ Account between Bombay and Public Works Department, Ordinary Branches—					
„ Bombay, IV.—Items adjustable by Public Works Department	.....	44 10 11			
„ Account between Madras and Bombay—					
III.—Items adjustable by Madras ...	.....	489 9 0			
Total ...	.....	24,86,537 4 0	Total Rs. ...	.....	24,86,537 4 0

Bombay, Accountant General's Office, 29th August 1885.

T. W. RAWLINS,
Accountant General.

FORM No. 55.

Forest Department, Southern Circle.

Outstandings and liabilities on account of Contractors and Disbursers of the Southern Circle for 1884-85.

Division.	Department Debtor.			Department Creditor.			Balance due		Remarks.
	At commencement of year.	Recoveries in Cash and Value of supplies and work done during year.	At close of year (Total).	At commencement of year.	Payments made during year.	At close of year (Total.)	To Department (outstandings.)	By Department (liabilities.)	
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		
Direction	.....	.....	.....	.....	.....	.....	.....	.....	
Northern Division, Kánara	.....	1,03,009 15 5	1,03,009 15 5	9,061 11 2	95,175 2 1	1,04,236 13 3	1,226 13 10	.....	
Central do. do.	.....	1,14,613 1 9	1,14,613 1 9	2,463 7 9	1,16,081 3 2	1,18,544 10 11	3,931 9 2	.....	
Southern do. do.	.....	59,458 7 6	59,458 7 6	6,116 8 10	54,406 11 2	60,523 4 0	1,064 12 6	.....	
Belgaum...	.....	73,689 4 2	73,689 4 2	(a)3,986 8 3	70,266 4 3	74,252 12 6	563 8 4	.....	(a) The Administration Report for 1883-84 shows Rs. 1,340-15-0. The difference is due to errors in the figures of the Administration Report.
Dhárwár	.....	13,730 4 8	13,730 4 8	.....	13,730 4 8	13,730 4 8	.....	.....	
Kaládgi	.....	3,915 9 10	3,915 9 10	.....	3,915 9 10	3,915 9 10	.....	.....	
Ratnágiri	.....	1,920 0 6	1,920 0 6	.....	2,129 13 4	2,129 13 4	209 12 10	.....	
Kolába	.....	27,707 3 7	27,707 3 7	.....	27,966 1 6	27,966 1 6	258 13 11	.....	
Total ...	.....	3,98,043 15 5	3,98,043 15 5	21,628 4 0	3,83,671 2 0	4,05,299 6 0	7,255 6 7	.....	

No. 20254—F.

Forest Department.

Forwarded to the Conservator, Southern Circle, for submission to Government with his Annual Administration Report for 1884-85.

Accountant General's Office,
Bombay, 9th January 1886.

T. W. RAWLINS,
Accountant General.

FORM No. 56.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Revenue realised and Outstandings on account of Revenue during 1884-85.

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	REMARKS.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Belgaum	*I. Timber and other produce removed from the forests by Government agency—*						Rs. a. p.
	a. Timber	5,854 8 0	50,149 6 7	56,003 14 7	(*a*) 40,465 0 1	15,538 14 6	(*a*) Differs from Form No. 53 by credited under II. *a* instead of under I. *a*. 5,681 12 0
	b. Firewood and charcoal	8 0 0	22,069 8 0	22,077 8 0	(*b*) 22,077 8 0	.....	(*b*) Differs from Form No. 53 by credited under II. *b* instead of under I. *b*. 22,069 8 0
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	0 6 0	0 6 0	0 6 0	.....	
	e. Grass and other minor produce	16 10 10	1,36,051 13 7	1,36,068 8 5	1,36,068 8 5	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.....	10,256 7 7	10,256 7 7	(*a*) 10,256 7 7	.....	(*c*) Outstandings as per Conservator's statement appended to the Administration Report for 1883-84—Rs. 3,084-8-0—difference being due to errors in the figures of the Administration Report.
	b. Firewood and charcoal...	.....	8,291 1 6	8,291 1 6	(*b*) 8,291 1 6	.....	
	c. Bamboos	.....	6,712 13 4	6,712 13 4	6,712 13 4	.....	
	d. Grazing and fodder grass	0 8 0	16,444 2 10	16,444 10 10	16,444 10 10	.....	
	e. Other minor produce	.....	2,072 14 9	2,072 14 9	2,072 14 9	.....	
	III. Confiscated, drift and waif wood	.....	43 8 6	43 8 6	46 8 6	.....	
	Total, Belgaum ...	(*c*) 5,879 10 10	2,52,092 2 8	2,57,971 13 6	2,42,432 15 0	15,538 14 6	
Dhárwár	*I. Timber and other produce removed from the forests by Government agency—*						Rs. a. p.
	a. Timber	28,548 8 0	48,747 2 0	77,295 10 0	(*b*) 60,587 15 10	16,707 10 2	(*a*) Amount outstanding as per Administration Report for 1883-84. 30,182 13 10
	b. Firewood and charcoal	28 13 10	11,607 10 8	11,636 8 6	(*c*) 11,559 8 6	77 0 0	As per accounts received in 1884-85 ... ... 28,747 2 6
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	379 4 6	379 4 6	379 4 6	.....	
	e. Grass and other minor produce	.....	.....	.....	.....	.....	Difference due to errors in the Administration Report ... 1,435 11 4
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	20 6 0	842 3 0	862 9 0	(*b*) 862 9 0	.....	(*b*) Differs from Form No. 53 by Rs. 619-6-0 due to cuttings by Government agency having been shown as by private agency in the divisional accounts The necessary correction will be made by journal entry.
	b. Firewood and charcoal...	149 6 8	1,496 12 11	1,646 3 7	(*c*) 1,646 3 7	.....	
	c. Bamboos	.....	6,725 5 8	6,725 5 8	6,725 5 8	.....	
	d. Grazing and fodder grass	.....	25,542 15 6	25,542 15 6	25,542 15 6	.....	
	e. Other minor produce	.....	1,901 2 7	1,901 2 7	1,901 2 7	.....	
	III. Confiscated, drift and waif wood	.....	91 10 0	91 10 0	91 10 0	.....	(*c*) Differs from Form No. 53 by Rs. 11,559-8-6. *See* remark (*b*).
	Total, Dhárwár ...	(*a*) 28,747 2 6	97,334 2 10	1,26,081 5 4	1,09,296 11 2	16,784 10 2	

Kaládgi ...	*I. Timber and other produce removed from the forests by Government agency—*					
	a. Timber	.....	.....	.....	.....	.....
	b. Firewood and charcoal...	.....	12 0 0	12 0 0	12 0 0	.....
	c. Bamboos	.....	.....	.....	.. ..	.....
	d. Sandalwood	.....	0 6 0	0 6 0	0 6 0	.....
	e. Grass and other minor produce	.....	4 0 0	4 0 0	4 0 0	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	1,220 3 0	1,220 3 0	1,220 3 0	.....
	b. Firewood and charcoal...	87 15 3	11,082 9 10	11,170 9 1	(*b*) 11,170 9 1	.....
	c. Bamboos	.....	2 0 0	2 0 0	2 0 0	.....
	d. Grazing and fodder grass	141 0 0	2,943 12 0	3,084 12 0	2,596 12 0	488 0 0
	e. Other minor produce	.....	2,968 7 5	2,968 7 5	(*b*) 2,968 7 5	.....
	III. Confiscated, drift and waif wood	.....	43 4 9	43 4 9	43 4 9	.....
	Total, Kaládgi ...	(*a*) 228 15 3	18,276 11 0	18,505 10 3	18,017 10 3	488 0 0
Kánara Central Division.	*I. Timber and other produce removed from the forests by Government agency—*					
	a. Timber	2,342 3 7	2,01,061 11 9	2,03,403 15 4	1,84,013 12 2	19,390 3 2
	b. Firewood and charcoal...	.....	3,404 9 6	3,404 9 6	3,404 9 6	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	2,602 12 5	2,602 12 5	2,564 8 5	38 4 0
	e. Grass and other minor produce	1,195 7 11	7,002 12 10	8,198 4 9	8,007 1 10	191 2 11
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	232 12 0	6,096 14 8	6,329 10 8	5,959 11 1 (*b*) 232 12 0	137 3 7
	b. Firewood and charcoal...	21 6 5	2,752 13 1	2,774 3 6	2,763 3 6	6 0 0
	c. Bamboos	27 0 0	12,001 2 8	12,028 2 8	12,028 2 8	.....
	d. Grazing and fodder grass	.....	7,642 14 9	7,642 14 9	7,642 14 9	.....
	e. Other minor produce	227 6 0	9,243 13 10	9,471 3 10	9,271 3 10	200 0 0
	III. Confiscated, drift and waif wood	.....	304 14 10	304 14 10	294 2 10	10 12 0
	Total, Kánara C. D. ...	(*a*) 4,046 3 11	2,52,114 8 4	2,56,160 12 3	2,35,954 6 7 (*b*) 232 12 0	19,973 9 8
Kánara Northern Division.	*I. Timber and other produce removed from the forests by Government agency –*					
	a. Timber	70,509 1 6	2,82,543 0 1	3,53,052 1 7	(*b*)2,87,275 10 9 (*c*) 1,655 4 10	64,121 2 0
	b. Firewood and charcoal...	.....	2,959 13 6	2,959 13 6	(*b*) 2,959 13 6	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce	.....	33,359 4 4	33,359 4 4	33,359 4 4	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	22,301 10 1	22,301 10 1	22,301 10 1	.....
	b. Firewood and charcoal...	.....	13,308 2 9	13,308 2 9	13,308 2 9	.....
	c. Bamboos	.....	22,277 6 0	22,277 6 0	22,277 6 0	.....
	d. Grazing and fodder grass	.....	6,179 6 9	6,179 6 9	6,179 6 9	.....
	e. Other minor produce	.....	2,850 6 4	2,850 6 4	2,850 6 4	.....
	III. Confiscated, drift and waif wood	.....	1,493 7 8	1,493 7 8	1,373 7 8	120 0 0
	Total, Kánara N. D. ...	(*a*) 70,509 1 6	3,87,272 9 6	4,57,781 11 0	3,91,885 4 2 1,655 4 10	64,241 2 0

(*a*) Outstanding as per Administration Report for 1883-84—Rs. 187-4-0—difference is due to errors in the figures of the Administration Report.
(*b*) Differs from Form No. 53 by Rs. 4-1-3 credited under II. *e* instead of under II. b.

(*a*) The figure taken for Statement VI. of the Administration Report for 1883-84 was Rs. 4,208-13-3. The difference is due to errors in the figures of the Administration Report.
(*b*) Written off as a free grant.

(*a*) The balance as per Administration Report for 1883-84 is Rs. 72,522-15-7. The difference is due to errors in the figures of the Administration Report.
(*b*) Differs from Form No. 53 by Rs. 184-10-10 credited under I. *a* instead of under I. *b*.
(*c*) Recoveries by re-sales at the risk of original purchasers.

FORM No. 56—*continued.*

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Kánara Southern Division.	*I. Timber and other produce removed from the forests by Government agency—*					
	a. Timber	19,694 1 4	1,04,731 13 6	1,24,425 14 10	1,01,777 3 0	22,648 11 10
	b. Firewood and charcoal	.....	2 8 0	2 8 0	2 8 0	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	2,620 3 8	2,620 3 8	2,620 3 8	.....
	e. Grass and other minor produce	9,885 7 6	26,122 0 3	36,007 7 9	36,007 7 9	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	47 2 0	23,632 4 8	23,636 11 10	23,003 11 0	633 0 10
	b. Firewood and charcoal	.....	3,015 6 3	3,015 6 3	3,009 2 3	6 4 0
	c. Bamboos	.....	2,169 13 0	2,169 13 0	2,165 5 0	4 8 0
	d. Grazing and fodder grass	.....	9,133 0 6	9,133 0 6	9,133 0 6	.....
	e. Other minor produce	179 0 0	1,986 5 1	2,165 5 1	1,848 14 5	316 6 8
	III. Confiscated, drift and waif wood	.....	494 6 2	494 6 2	494 6 2	.....
	Total, Kánara S. D.	(a) 29,763 0 0	1,73,907 13 1	2,03,670 13 1	1,80,061 13 9	23,608 15 4
Kolába	*I. Timber and other produce removed from the forests by Government agency—*					
	a. Timber	.....	28,187 2 3	28,187 2 3	28,187 2 3	.....
	b. Firewood and charcoal	.....	2,768 9 7	2,768 9 7	2,768 9 7	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce	.....	704 5 5	704 5 5	704 5 5	.....
	II. Timber and other produce removed from the forests by consumers and purchasers—					
	a. Timber	.....	37,564 9 11	37,564 9 11	37,564 9 11	.....
	b. Firewood and charcoal	.....	23,004 15 7	23,004 15 7	23,004 15 7	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Grazing and fodder grass	.....	2,517 4 1	2,517 4 1	2,517 4 1	.....
	e. Other minor produce	.....	2,168 11 8	2,168 11 8	2,168 11 8	.....
	III. Confiscated, drift and waif wood	.....	1,259 8 2	1,259 8 2	1,259 8 2	.....
	Total, Kolába	.....	98,175 2 8	98,175 2 8	98,175 2 8	.....

Remarks.

(a) The difference between this and the figures taken for the Administration Report for 1883-84 is due to errors in the figures of the Administatien Report.

The outstandings include the following old items :—

Year.	No. of Items.	Amount.
1864-65	5	3,681 8 0
1869-70	2	4,935 8 0
1874-75	5	27 0 0
1875-76	2	84 2 5
1876-77	3	71 12 0
1878-79	4	41 0 0
1879-80	2	442 0 0
1880-81	6	598 0 0
1881-82	6	1,776 0 0
1882-83	7	426 0 0
1883-84	11	643 4 1

Ratnágiri	*I. Timber and other produce removed from the forests by Government agency—*						
	a. Timber	.....	7,334 15 6	7,334 15 6	7,334 15 6	.....	(*a*) Differs from Form No. 53 by Rs. 30-9-2 which has been credited to II *e* instead o to II *d*.
	b. Firewood and charcoal	.....	71 13 3	71 13 3	71 13 3	.....	
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce.	.....	120 2 0	120 2 0	120 2 0	.....	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	.....	173 15 1	173 15 1	173 15 1	.....	
	b. Firewood and charcoal	.....	42 9 6	42 9 6	42 9 6	.....	
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass	.....	277 13 3	277 13 3	(*a*) 277 13 3	.....	
	e. Other minor produce	.....	21 11 0	21 11 0	(*a*) 21 11 0	.....	
	III. Confiscated, drift and waif wood	.....	415 14 10	415 14 10	415 14 10	.....	
	Total, Ratnágiri ...	.....	8,458 14 5	8,458 14 5	8,458 14 5	.....	
Total, Southern Circle. ...	*I. Timber and other produce removed from the forests by Government agency—*						*N. B.*—For differences between revenue as shown here and Form No. 53 see remarks above.
	a. Timber	1,26,948 6 5	7,22,755 3 8	8,49,703 10 1	7,09,641 11 7 **1,655 4 10**	1,38,406 9 8	
	b. Firewood and charcoal	36 13 10	42,896 8 6	42,933 6 4	42,856 6 4	77 0 0	
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	5,603 0 7	5,603 0 7	5,564 12 7	38 4 0	
	e. Grass and other minor produce	11,097 10 3	2,03,364 6 5	2,14,462 0 8	2,14,270 13 9	191 2 11	
	II. Timber and other produce removed from the forests by consumers and purchasers—						
	a. Timber	257 9 2	1,02,088 4 0	1,02,345 13 2	1,01,342 12 9 **232 12 0**	770 4 5	
	b. Firewood and charcoal...	258 12 4	62,994 7 5	63,253 3 9	63,240 15 9	12 4 0	
	c. Bamboos	27 0 0	49,888 8 8	49,915 8 8	49,911 0 8	4 8 0	
	d. Grazing and fodder grass	141 8 0	70,681 5 8	70,822 13 8	70,334 13 8	488 0 0	
	e. Other minor produce	406 6 0	23,213 8 8	23,619 14 8	23,103 8 0	516 6 8	
	III. Confiscated, drift and waif wood	.....	4,146 10 11	4,146 10 11	4,015 14 11	130 12 0	
	GRAND TOTAL ...	1,39,174 2 0	12,87,632 0 1	14,26,806 2 6	12.84,282 14 0 **1,888 0 10**	1,40,635 3 8	

No. $\frac{\text{F.}}{20438}$

FOREST DEPARTMENT.

Forwarded to the Conservator of Forests for submission to Government with the Annual Administration Report for the year 1884-85.

A. F. COX,
Deputy Accountant General.

Bombay, Accountant General's Office,
12th January 1886.

FORM No. 57.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Financial Results of the year 1884-85.

Division.	Timber and other Produce removed from the Forests by Government Agency.		Other Revenue.		Formation, Protection and Improvement of Forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Direction	.....	.....	37	26,876	.....	37	26,876	
N. D. of Kánara	3,23,595	1,36,580	68,903	681	32,247	3,92,498	1,69,508	
C. D. of Kánara	1,97,990	1,09,849	38,859	1,023	36,054	2,36,849	1,46,926	
Belgaum	1,70,860	45,137	71,794	15,842	32,070	2,42,654	93,049	
Dhárwár	60,348	20,874	49,237	9,404	23,891	1,09,585	54,169	
Bijápur (Kaládgi)	16	44	18,151	1,694	17,507	18,167	19,245	
Kolába	31,660	8,881	69,228	3,979	39,355	1,00,888	52,215	
Ratnágiri	7,527	1,051	1,186	58	15,363	8,713	16,472	
S. D. of Kánara	1,40,407	56,172	39,763	444	29,301	1,80,170	85,917	
Total ...	9,32,403	3,78,588	3,57,158	60,001	2,25,788	12,89,561	6,64,377	

Conservator's Office, S.C.,
Camp Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, S. C.

FORM No. 58.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Trees felled by Government Agency during the year 1884-85 (Selection fellings).

Division.	Trees felled.		Remarks.
	Description.	Number.	
Central Division of Kánara ...	Teakwood	9,855	
	Junglewood ...	5,035	
	Miscellaneous ...	200	
	Total ...	15,090	
Southern Division of Kánara ...	Teak	170	
	Junglewood ...	418	
	Total ...	588	
Belgaum	Teak	3,480	
Dhárwár	Teak	14,271	
	Sandalwood ...	836	
	Junglewood ...	2,810	
	Blackwood... ...	6	
	Total ...	17,923	
ABSTRACT OF THE CIRCLE.			
	Teak	27,776	
	Sandalwood ...	836	
	Blackwood... ...	6	
	Junglewood ...	8,263	
	Miscellaneous ...	200	
	Total ...	37,081	

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

Conservator's Office, Southern Circle,
Camp Yellápur, Kánara District,
15th October 1885.

FORM No. 59.

Forest Department, Southern Circle.

Outturn of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Produce cut and collected.				Remarks.
	How obtained.	Description.	Number or Quantity.	Measurement.	
				Khandis.	
Northern Division of Kánara.	Selection fellings ...	Teak logs	10,004	15,207	
		Blackwood	295	342	
		Junglewood	755	1,040	
		Teak poles	28,364	4,695	
		Do. round pieces for sleepers	11,014	.....	
	Thinnings ...	Teak poles	15,500	.....	
		Total, Timber ...	65,932	21,284	
	Collection ...	Myrobalans	2,103	Khandis.	
	Cleanings ...	Firewood	496	Tons.	
		Total ...	2,599	.....	
Central Division of Kanara.	Selection fellings ...	Teak round pieces for sleepers	44,667	.....	
		Adzed sleepers ...	386	.....	
		Teak logs	4,303	7,945	
		Blackwood	103	129	
		Junglewood	531	548	
	Thinnings	Sandalwood	.....	24	
		Teak poles	4,430	.....	
	Confiscated	Junglewood	49	.....	
	Drift	Do.	4	.....	
		Total, Timber ...	54,473	8,646	
	Thinnings	Jiráyatwood	2,040	.....	
		Sandalwood chips ...	8	Cart-loads.	
		Brakes for traffic carts.	7,283	.....	
	Clearance	Firewood	1,327	Cart-loads.	
		Do.	823	Tons.	
	Collection	Grass	153,904	Pullies.	
		Myrobalans	479	Khandis.	
		Shigekái	22	Do.	
	Confiscated	Firewood	154	Head-loads.	
	Drift	Seebs	150	.....	
		Boat and basin ...	2	.....	
		Total ...	166,192	.....	
Southern Division of Kánara.	Selection fellings ...	Teak logs	407	639	
		Do. round pieces for sleepers	34,379	.....	
		Sleeper slabs	25,221	.....	
		Junglewood	982	1,407	
	Thinnings	Sandalwood	981	19	
		Teak poles	708	259	
		Total, Timber ...	62,678	2,324	
	Collections... ...	Myrobalans	1,863	Khandis.	
		Shigekái	324	Do.	
		Total ...	2,187	.....	

FORM No. 59—*continued.*

Division.	Produce cut and collected.				Remarks.
	How obtained.	Description.	Number or Quantity.	Measurement.	
				Khandis.	
Belgaum ...	Felling	Teak logs	544	852	
		Do. poles	10,053	.....	
		Blackwood	61	119	
		Junglewood	181	406	
		Bábul pieces	1,008	.....	
	Clearance	Junglewood poles ...	26,235	.....	
		Total Timber ...	38,082	1,377	
				Stacks.	
	Clearance	Firewood	21,006		
	Collection	Myrobalans	10,234	Khandis.	
		Total ...	31,240	.....	
Dhárwár ...	Selection, fellings and thinnings ...	Teak rafters	14,697	.....	
		Junglewood rafters ...	2,825	.....	
		Blackwood do. ...	7	.....	
		Miscellaneous pieces...	152	... ..	
		Total, Timber ...	17,681	.....	
	Thinnings, Selection fellings and loppings of trees ...	Jiráyatwood pieces ...	31,386	.....	
		Firewood stacks ...	9,665	.....	
		Total ...	41,051	.....	
Bijápur ...	Clearance	Firewood	4	Cart-loads.	
		Grass	26,000	Bundles.	
		Sandalwood	2	Pieces.	
		Total ...	26,006	.....	
Kolába ...	Clearance	Teak poles	2,552	.....	
		Do. rafters, I. Class...	9,767	.....	
		Do. do. II. do. ...	14,279	.....	
		Do. do. III. do. ..	14,825	... ..	
		Do. do. IV. do. ...	7,469	.....	
		Miscellaneous pieces...	8,519	.....	
		Total Timber ...	57,411	.....	
	Felling	Teak firewood ...	743	Kowl Khandis.	
	Purchased from wild tribes ...	Injaili firewood ...	122	Cart-loads.	
		Do. do. ...	300	Head-loads.	
		Do. do. ...	171,987	Bundles.	
	Collection	Myrobalans	20	Khandis.	
		Shigekái	19	Do.	
		Total ...	173,191	.....	
				Khandis.	
Ratnágiri ...	Thinnings	Teak	14,038	4,386	
	From branches ...	Firewood	237	Tons.	
	Collection	Myrobalans	3	Khandis.	
		Total ...	240	.....	

FORM No. 59—*continued.*

ABSTRACT OF THE CIRCLE.

Division.	Produce cut and collected.		Remarks.
	Number or Quantity.	Measurement.	
Toak logs	29,296	29,029	
Do. poles and rafters	122,644	.....	
Do. round pieces for sleepers	90,060	.....	
Do. adzed sleepers	386	.....	
Do. sleeper slabs	25,221	.....	
Blackwood logs	459	600	
Do. rafters	7	.....	
Junglewood	2,502	.....	
Do. poles and rafters	29,060	.....	
Sandalwood	.....	43	
Bábul pieces...	1,008	.....	
Miscellaneous pieces	8,671	.....	
Total ...	309,414	29,672	
Firewood	1,453	Cart-loads.	
Do.	172,441	Head-loads.	
Do.	1,556	Tons.	
Do.	30,671	Stacks.	
Do.	743	Kowl Khandis.	
Sandalwood chips	8	Cart-loads.	
Do. pieces	2	.....	
Myrobalans	14,702	Khandis.	
Shigekái	365	Do.	
Jiráyatwood...	33,426	.....	
Brakes for traffic carts	7,283	.....	
Grass	179,904	Pullies.	
Seebs	150	.....	
Boat and basin	2	.....	
Total ...	442,706	.....	

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

Conservator's Office, Southern Circle,
Camp Yelláp̃ur, Kánara District,
15th October 1885.

FORM No. 60.

Forest Department, Southern Circle.

Timber and other produce received from Forests in Sale Depôts during 1884-85.

Division.	Depôts.	Produce received. Description.	Number or Quantity.	Measurement.	Remarks.
				Khandis.	
Northern Division of Kánara.		Teak	10,004	15,195	
		Do. round pieces for sleepers ...	11,900	.....	
		Do. poles	28,395	.....	
		Blackwood	295	342	
		Junglewood	755	1,040	
		Total, Timber ...	51,349	16,577	
		Firewood ... ... Tons.	496	.....	
		Myrobalans	.....	2,093	
Central Division of Kánara.		Teak	1,843	4,911	
		Do. round pieces for sleepers ...	38,081	.....	
		Do. poles	5,445	.....	
		Blackwood	93	116	
		Sandalwood	.....	21	
		Junglewood	139	152	
		Brakes for traffic carts	6,965	.....	
		Total, Timber ...	52,566	5,200	
		Myrobalans	.....	408	
		Shigekái	.....	19¾	
Southern Division of Kánara.		Teak	407	639	
		Do. round pieces for sleepers ...	20,692	.....	
		Do. poles	708	.....	
		Blackwood	.....	.....	
		Sandalwood	.....	20	
		Junglewood	982	1,417	
		Total, Timber ...	22,789	2,076	
		Myrobalans	.....	1,863	
		Shigekái	.....	115	
Belgaum Division.		Teak	427	766	
		Do. poles	1,054	5,023	
		Do. pieces	117	85	
		Blackwood	47	106	
		Do. pieces	14	13	
		Junglewood	167	391	
		Do. pieces	14	14	
		Total, Timber ...	1,840	6,398	
		Myrobalans	.....	10,234	
Dhárwár Division.		Teak rafters	15,295	.....	
		Blackwood rafters	13	.....	
		Sandalwood	.....	33	
		Junglewood rafters	4,245	.....	
		Agricultural pieces	24,761	.....	
		Total, Timber ...	44,314	33	
		Hirdas	.....	15	

FORM No. 60—*continued.*

Division.	Depôts.	Produce received. Description.	Number or Quantity.	Measurement.	Remarks.
				Khandis.	
Kolába Division.		Teak beams	2,552	.....	
		Poles I Class	9,321	.....	
		Do. II do.	13,279	.....	
		Do. III do.	14,795	.....	
		Do. IV do.	7,469	.....	
		Miscellaneous pieces	6,423	.....	
		Total, Timber ...	53,839	.....	
		Firewood ... ... Head-loads.	172,468	.....	
		Do. ... ... Cart-loads.	122	.....	
		Do. ... ... Maunds.	56,210	.....	
		Hirda	.....		20
		Shigekái	.....		21
Ratnágiri Division.		Beams (Sotas)	925	.....	
		Poles I Class...	1,313	.....	
		Do. II do.	1,700	.....	
		Do. III do.	2,601	.....	
		Do. IV do.	1,645	.....	
		Miscellaneous pieces	5,854	.....	
		Total, Timber ...	14,038	.....	
		Firewood ... ... Cubic feet.	22,794	.....	
		Hirdas	.....		3

ABSTRACT OF THE CIRCLE.

Teak	12,681	21,511
Do. round pieces for sleepers ...	70,673	.....
Teak poles, &c.	95,761	.....
Teak pieces	14,155	.....
Teak beams	2,552	.....
Miscellaneous pieces	6,423	.....
Blackwood	435	564
Do. pieces...	14	13
Do. rafters	13	.....
Junglewood	2,043	3,000
Do. pieces and rafters... ...	4,259	.....
Sandalwood	.....	74
Brakes for traffic carts	6,965	.....
Agricultural pieces	24,761	.....
Total ...	240,735	25,162
Firewood ... ... Tons.	496	.....
Do. ... ... Head loads.	172,468	.....
Do. ... ... Cart-loads.	122	.....
Do. ... ... Maunds.	56,210	.....
Do. ... ... Cubic feet.	22,794	.....
Myrobalans	.....	14,636
Shigekái	.....	155¾
	252,090	14,791¾
Grand Total ...	492,825	39,953¾

W. PEYTON, Colonel,
Conservator of Forests, S. C.

Conservator's Office, S.C., Yelláp ur, Kánara Districts,
15th October 1885.

FORM No. 61.

Forest Department, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during 1884-85.

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Measurement.	Remarks.
				Khandis.	
Northern Division of Kánara.		Teakwood	.....	15,123	
		Do. round pieces for sleepers...	11,900	.....	
		Do. poles	28,426	.....	
		Blackwood	209	224	
		Junglewood	.....	573	
		Total Timber ...	40,535	15,920	
		Firewood ... ...Tons	496	.....	
		Myrobalans	.....	1,971 Khds.	
Central Division of Kánara.		Teakwood	.....	3,562	
		Do. round pieces for sleepers..	32,998	.....	
		Do. poles	5,245	.....	
		Blackwood	52	87	
		Junglewood	.....	82	
		Sandalwood ... ... Khandis.	.....	21	
		Sitting boards	656	.....	
		Brakes for traffic carts'	7,162	.....	
		Total Timber ..	46,113	3,752	
		Grass pullies...	17,524	.....	
		Hirdas ... .. Khandis.	.....	401	
		Shigekái ... ... „	.....	15	
Southern Division of Kánara.		Teak	.....	449	
		Do. round pieces for sleepers ..	20,692	.....	
		Do. poles	1,297	.....	
		Sandalwood... ... Khandis.	.....	20	
		Junglewood	.....	1,370	
		Total Timber ...	21,989	1,839	
		Myrobalans ... ... Khds.	.....	1,575	
		Shigekái	.....	61	
		Firewood ... ...Cart-loads	4	.....	
Belgaum Division ...		Teak	.....	765	
		Do. poles	922	.....	
		Do. pieces...	117	.....	
		Blackwood	42	86	
		Do. pieces	14	13	
		Junglewood	.....	366	
		Do. pieces	14	.....	
		Total Timber ...	1,109	1,230	
		Hirdas ... ...Khandis	.....	8,204	
Dhárwár Division ...		Teak rafters...	15,635	.....	
		Blackwood rafters	13	.....	
		Sandalwood	.....	3	
		Junglewood rafters	4,565	.....	
		Jirayatwood (pieces)	22,564	.....	
		Teak poles	19	.....	
		Junglewood poles	811	.....	
		Total Timber ...	43,607	3	
		Hirdas ... ...Khandis	.....	15	

FORM No. 61—*continued.*

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Measurement.	Remarks.
				Khandis.	
Ratnágiri Division ...		Beams (sotas)	925	.....	
		Poles, I. Class	1,313	.....	
		Do. II. do.	1,700	.....	
		Do. III. do.	2,601	.....	
		Do. IV. do.	1,645	.....	
		Miscellaneous pieces	5,854	.....	
		Total Timber ...	14,038	.....	
		Firewood ... ... Cubic feet.	22,794	.....	
		Hirdas ... ... Khandis.	.....	3	
Kolába Division ...		Teak beams	2,552	.....	
		Poles, I. Class	9,121	.....	
		Do. II. do.	13,260	.....	
		Do. III. do.	15,503	.....	
		Do. IV. do.	8,440	.....	
		Miscellaneous pieces	6,805	.....	
		Total Timber ...	55,681	.....	
		Firewood ... ...Head-loads	165,504	.....	
		Do. ... ... Cart-loads	1	.....	
		Do. ... ... Maunds	56,210	.....	
		Hirdas ... ... Khandis.	.....	20	
		Shigekái... ... ... ,,	.....	21	
		ABSTRACT OF THE CIRCLE.			
		Teak	.....	19,899	
		Do. round pieces for sleepers ...	65,590	.....	
		Do. poles, rafters, &c.	97,868	.....	
		Do. pieces...	14,155	.....	
		Do. beams	2,552	.....	
		Miscellaneous pieces	6,805	.....	
		Blackwood	303	397	
		Do. pieces	14	13	
		Do. rafters	13	.....	
		Junglewood	.....	2,391	
		Do. pieces and rafters	4,579	.....	
		Do. poles	811	.....	
		Sandalwood ... ...Khandis	.....	44	
		Jirayetwood (agricultural pieces) ...	22,564	.....	
		Sitting boards	656	.....	
		Brakes for traffic carts	7,162	.....	
		Total, Timber ...	223,072	22,744	
		Firewood ... ...Head-loads	165,504	.....	
		Do. ... ... Cart-loads	5	.....	
		Do. ... ... Maunds	56,210	.....	
		Do. ... ... Tons	496	.....	
		Do. ... ... Cubic feet	22,794	.....	
		Myrobalans ... ... Khandis	.....	12,189	
		Shigekái ... ... ,,	.....	97	
		Grass pullies	17,524	.....	
		Total ...	262,533	12,286	

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

Conservator's Office, Southern Circle,
Yellápur, Kánara Districts, 15th October 1885.

FORM No. 62.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Account of Timber and other Produce cut or collected by Government agency and brought to Sale Depôts or sold locally during the year 1884-85.

Particulars.	No. or Quantity.	Khandis.	Total of each head. No. or Quantity.	Total of each head. Khandis.
BALANCE AT THE COMMENCEMENT OF THE YEAR.				
Northern Division of Kánara.				
Teakwood	...	6,924		
Blackwood	14	23		
Junglewood	...	39		
Teak poles	31	...		
			45	6,986
Central Division of Kánara.				
Teakwood	...	173		
Do. round pieces for sleepers ...	6,405	...		
Blackwood	58	70		
Junglewood	...	1,044		
Sitting boards	773	...		
Brakes for traffic carts ...	468	...		
			7,704	1,287
Southern Division of Kánara.				
Teakwood	...	143		
Do. poles	898	...		
Blackwood	3	4		
Junglewood	...	463		
			901	610
Belgaum Division.				
Teak poles	146	...		
			146	...
Dhárwár Division.				
Teak rafters	563	...		
Do. poles	19	...		
Junglewood rafters	545	...		
Do. poles	811	...		
			1,938	...
Kolába Division.				
Teak poles or rafters, II. Class	1,089	...		
Do. do. III. do.	2,169	...		
Do. do. IV. do.	2,745	...		
Miscellaneous pieces ...	1,469	...		
			7,472	...
RECEIVED FROM THE FORESTS DURING THE YEAR.				
Teak	...	21,511		
Do. round pieces for sleepers ...	70,673	...		
Do. poles	95,761	...		
Do. pieces	14,155	...		
Do. beams	2,552	...		
Miscellaneous pieces ...	6,423	...		
Blackwood	435	564		
Do. pieces	14	13		
Do. rafters	13	...		
Junglewood	...	3,000		
Do. pieces and rafters... ...	4,259	...		
Sandalwood	...	74		
Brakes for traffic carts ...	6,965	...		
Jiráyatwood (agricultural pieces)	24,761	...		
			226,011	25,162
Total ...	...	...	244,217	34,045

Particulars.	No. or Quantity.	Khandis.	Total of each head. No. or Quantity.	Total of each head. Khandis.
SOLD DURING THE YEAR.				
Teak	...	19,899		
Do. round pieces for sleepers	65,590	...		
Do. poles, rafters, &c. ..	97,868	...		
Do. pieces	14,155	...		
Do. beams	2,552	...		
Miscellaneous pieces ...	6,805	...		
Blackwood	303	397		
Do. pieces	14	13		
Do. rafters	13	...		
Junglewood	...	2,391		
Do. pieces and rafters ...	4,579	...		
Do. poles	811	...		
Sandalwood	...	44		
Jiráyatwood (agricultural pieces)	22,564	...		
Sitting boards	656	...		
Brakes for traffic carts ...	7,162	...		
			223,072	22,744
BALANCE IN HAND AT THE CLOSE OF THE YEAR.				
Northern Division of Kánara.				
Teakwood	...	6,996		
Blackwood	100	141		
Junglewood	...	506		
			100	7,643
Central Division of Kánara.				
Teak	...	1,522		
Do. poles...	200	...		
Do. round pieces for sleepers	11,488	...		
Blackwood	99	99		
Junglewood	...	1,114		
Sitting boards	117	...		
Brakes for traffic carts ...	271	...		
			12,175	2,735
Southern Division of Kánara.				
Teak	...	333		
Do. poles	309	...		
Blackwood	3	4		
Junglewood...	...	510		
			312	847
Belgaum Division.				
Teak logs	...	1		
Do. poles	278	...		
Blackwood	5	20		
Junglewood	...	25		
			283	46
Dhárwár Division.				
Teak rafters...	223	...		
Junglewood rafters ...	225	...		
Jiráyatwood (agricultural pieces)	2,197	...		
Sandalwood.	...	30		
			2,645	30
Kolába Division.				
Teak poles or rafters, I. Class	200	...		
Teak poles or rafters, II. Class.	1,108	...		
Teak poles or rafters, III. Class	1,461	...		
Teak poles or rafters, IV. Class	1,774	...		
Miscellaneous pieces	1,087	...		
			5,630	...
	...	...		
Total ...	...	...	244,217	34,045

FORM No. 62—*continued.*

Particulars.	No. or Quantity.	Khandis.	Total of each head. No. or Quantity.	Total of each head. Khandis.
Balance in hand at the commencement of the year.				
Northern Division of Kánara.				
Hirdas ... ... Khandis.	...	166		
			...	166
Central Division of Kánara.				
Grass ... ... Pullies.	142,295	...		
			142,295	...
Southern Division of Kánara.				
Firewood ... ... Carts.	4	...		
Hirda ... ... Khandis.	...	2		
Shigekái ... ... Do.	...	4		
			4	6
Ratnágiri Division.				
Firewood ... ... C. feet.	22,794	...		
Hirdas ... ... Khandis.	...	3		
			22,794	3
Received from Forests during the year.				
Firewood ... Tons.	496	...		
Do. ... Head-loads.	172,468	...		
Do. ... Cart-loads.	122	...		
Do. ... Maunds.	56,210	...		
Do. ... Cubic feet.	22,794	...		
Hirdas ... Khandis.	...	14,636		
Shigekái ... Do.	...	155¾		
			252,090	14,791¾
Total ...	...	...	417,183	14,966¾

Particulars.	No. or Quantity.	Khandis.	Total of each head. No. or Quantity.	Total of each head. Khandis.
Firewood, &c.				
Sold during the year.				
Firewood ... Head-loads.	165,504	...		
Do. ... Cart-loads.	5	...		
Do. ... Maunds.	56,210	...		
Do. ... Tons.	496	...		
Do. ... Cubic feet.	22,794	...		
Hirdas ... Khandis.	...	12,189		
Shigekái ... Khandis.	...	97		
Grass ... ... Pullies.	17,524	...		
			262,533	12,28
Balance in hand at the close of the year.				
Northern Division of Kánara.				
Hirdas ... ... Khandis.	...	288		
Central Division of Kánara.				
Hirdas ... ... Khandis.	...	7		
Shigekái ... Do.	...	4¾		
Grass ... ... Pullies.	124,771	...		
Southern Division of Kánara.				
Hirdas ... ... Khandis	...	290		
Shigekái ... Do. ...	...	58		
Belgaum Division.				
Hirdas ... ... Khandis	...	2,030		
Ratnágiri Division.				
Hirdas ... ... Khandis	...	3		
Firewood ... Cubic feet.	22,794	...		
Colába Division.				
Firewood ... Head-loads.	6,964	...		
Do. ... Cart-loads.	121	...		
			154,650	2,680¾
Total ...	...	...	417,183	14,966¾

Conservator's Office, Southern Circle,
Dated Yellápar, Kánara Districts,
the 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 63.

Forest Department, Southern Circle.

Timber and other Produce cut, collected and removed from the Forests by consumers or purchasers, including pasture, during the year 1884-85.

Division.	Produce removed. Description.	Number or Quantity.	Amount of Revenue.	Amount, actually realized during the year.	Remarks.
			Rs. a. p.	Rs. a. p.	
Northern Division of Kánara.	(*a*) Junglewood ... ... Khandis.	3,677	22,301 10 1	22,301 10 1	
	(*b*) Firewood ... ... Cart-loads.	4,756	13,308 2 9	13,308 2 9	
	Do. ... ... Head-loads	25,737			
	Do. ... ... Tons.	5,561			
	Charcoal ... ... Maunds.	6,398			
	(*c*) Bamboos	2,016,668	22,277 6 0	22,277 6 0	
	(*d*) Grazing	.....	6,179 6 9	6,179 6 9	
	(*e*) Minor Produce	.....	2,850 6 4	2,850 6 4	
	Total Revenue under II. ...	.....	66,916 15 11	66,916 15 11	
Central Division of Kánara.	(*a*) Junglewood ... ... Khandis.	2,323	5,959 11 1	5,822 7 6	
	Do. poles	750			
	(*b*) Firewood .. ... Cart-loads.	3,076	2,768 3 6	2,768 3 6	
	Do. ... ... Head-loads	70,188			
	Do. ... ... Tons.	808			
	Charcoal ... ... Maunds.	646			
	(*c*) Bamboos	940,701	12,028 2 8	12,028 2 8	
	Do. ... ... Cart-loads.	111			
	(*d*) Grazing	.....	7,642 14 9	7,642 14 9	
	(*e*) Minor Produce	.....	9,271 3 10	9,071 3 10	
	Total Revenue under II. ...	.....	37,670 3 10	37,333 0 3	
Southern Division of Kánara.	(*a*) Teak ... ... Khandis.	209	23,003 11 0	22,866 6 5	
	Junglewood ... ... Do.	7,898			
	Do. poles	308			
	(*b*) Firewood ... ... Cart-loads.	5,499	3,009 2 3	3,007 10 3	
	Do. ... ... Head-loads	63,784			
	Do. ... ... Tons.	100			
	Charcoal ... ... Maunds.	301			
	(*c*) Bamboos	214,912	2,165 5 0	2,165 5 0	
	(*d*) Grazing	.....	9,133 0 6	9,133 0 6	
	(*e*) Minor Produce	.....	1,848 14 5	1,491 15 9	
	Total Revenue under II. ...	.....	39,160 1 2	38,664 5 11	
Belgaum	(*a*) Teak poles	3,480	15,938 3 7	15,938 3 7	
	Junglewood ... ... Khandis.	72			
	Do. rafters	3			
	Do. poles	26,233			
	(*b*) Firewood ... ... Stacks.	25,258	30,360 9 6	30,360 9 6	
	Do. ... ... Cart-loads.				
	Do. ... ... Head-loads	91,325			
	Charcoal ... ... Maunds.	718			
	(*c*) Bamboos	561,938	6,712 13 4	6,710 13	
	(*d*) Grazing	.....	16,444 10 10	16,444 10	
	(*e*) Minor Produce	.....	2,072 14 9	2,072	
	Total Revenue under II. ...	.....	71,529 4		

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
			Rs. a. p.	Rs. a. p.	
Dhárwár ...	(a) Junglewood pieces ...	3,039	1,481 15 0	1,391 8 0	
	Thorns ... Cart-loads.	1,745			
	Do. ... Bullock-loads.	16			
	(b) Firewood ... Head-loads.	16,380	13,205 12 1	13,205 12 1	
	Do. ... Cart-loads.	12,177			
	Do. ... Donkey-loads	2,717			
	Do. ... Bullock-loads	53			
	(c) Bamboos ...	505,273	6,725 5 8	6,725 5 8	
	Do. dry ... Loads.	11,820			
	(d) Grazing ...	...	25,542 15 6	25,542 15 6	
	(e) Minor Produce ...	...	1,901 2 7	1,900 10 7	
	Total Revenue under II. ...	...	48,857 2 10	48,766 3 10	
Bijápur ...	(a) Sandalwood piece ...	1	1,220 3 0	1,220 3 0	
	Timber ... Cart-loads.	127			
	Jantis ... Head-loads.	5,718			
	Thorns ... Heaps.	153			
	Do. ... Head-loads.	46			
	(b) Firewood ... Cart-loads.	4,453	11,166 7 10	11,166 7 10	
	Do. ... Bullock-loads.	6,251			
	Do. ... Donkey-loads.	9,953			
	Do. ... Horse-loads.	1,103			
	Do. ... Head-loads.	112,787			
	(c) Bamboos ...	...	2 0 0	2 0 0	
	(d) Grazing ...	...	2,596 12 0	2,249 12 0	
	(e) Minor Produce ...	...	2,972 8 8	2,972 8 8	
	Total Revenue under II. ...	...	17,957 15 6	17,610 15 6	
Kolába ...	(a) Teak pieces ...	73,118	37,564 9 11	37,564 9 11	
	(b) Firewood ... Kowl Khandis.	25,062	23,004 15 7	23,004 15 7	
	(d) Grazing ...	...	2,517 4 1	2,517 4 1	
	(e) Minor Produce ...	...	2,168 11 8	2,168 11 8	
	Total Revenue under II. ...	...	65,255 9 3	65,255 9 3	
Ratnágiri ...	(a) Beams (Sotas) ...	925	173 15 1	173 15 1	
	Poles I Class ...	1,313			
	Do. II do. ...	1,700			
	Do. III do. ...	2,601			
	Do. IV do. ...	1,645			
	Miscellaneous pieces ...	5,854			
	(b) Firewood ... Cubic-feet.	22,794	42 9 6	42 9 6	
	(d) Grazing ...	...	247 4 0	247 4 0	
	(e) Minor Produce ...	...	52 4 3	52 4 3	
	Total Revenue under II. ...	..	516 0 10	516 0 10	
	Total Revenue of the Circle ...	...	3,47,863 5 4	3,46,590 7 6	

Conservator's Office, S.C., Camp Yellápur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, S. C.

FORM No. 64.

FORM

FOREST DEPARTMENT,

Revenue derived from and Expenditure incurred on Timber and other Produce

Name of Department.	Particulars of Supplies.	Amount supplied.		Rate.		Amount
		Number.	Contents.	At.	Per.	Due.
						Northern Division
			Khds. q. g. t.	R. a. p.		Rs. a. p.
Director of Indian Marine, Bombay.	Teak logs	28	147 3 1 16	26 8 0	Khandi ...	3,917 12 3
	Do.	14	58 1 1 13	21 8 0	Do. ...	1,254 2 5
	Do.	8	32 0 4 10	16 8 0	Do. ...	531 11 5
Superintendent, Gun Carriage Factory, Bombay.	Do.	4	30 1 2 15	30 0 0	Do. ...	911 10 0
	Do.	5	31 0 1 0	25 0 0	Do. ...	776 4 0
Executive Engineer, Kánara.	Do.	3	33 C. ft.	2 4 0	C. ft. ...	74 4 0
			Khds. q. g. t.			
Executive Engineer, Dhárwár.	Do.	35	64 3 3 7	20 0 0	Khandi ...	1,298 5 7
Haliyál Municipality ...	Do.	2	6 2 1 5	10 15 0	Do. ...	71 12 5
Southern Marátha Railway Company.	Do.	50	109 2 2 2	29 0 0	Do. ...	2,630 8 4
	Do.	623	1,500 2 2 9	26 0 0	Do. ...	39,016 2 11
	Blackwood	5	12 1 4 5	16 0 0	Do. ...	199 6 4
	Junglewood	49	109 1 1 8	16 0 0	Do. ...	1,749 1 11
	Sleepers, rectangular ...	9,478	.....	2 9 6	Each. ...	24,583 9 0
	Do. half round ...	6,860	.....	2 0 0	Do. ...	13,720 0 0
	Do. do. ...	1,497	.....	1 10 6	Do. ...	2,568 13 6
	Do. rejected, rectangular.	82	.....	1 3 11	Do. ...	102 1 2
	Do. do. half round,	36	.....	1 0 10	Do. ...	37 14 0
					Total ...	93,443 7 3
			C. ft.			*Central Division*
Public Works Department, Kánara.	Teak scantlings	...	232 7 6	...	.....	586 8 7
	Do. planking	...	294 4 6	...	.....	693 1 7
	Do. battans	...	.....	...	.....	243 13 0
	Teakwood	...	.....	...	.....	241 11 9
			Khds. q. g. t.			
	Junglewood	...	66 3 1 10	...	.....	193 2 3
			C. ft.			
	Do. scantlings ...	...	482 6 6	...	.....	705 7 10
	Junglewood and firewood.	...	.....	...	.....	30 4 4
	Firewood ... ... Carts	140	.....	0 4 0	Cart ...	35 0 0
	Douge bamboos	1,800	.....	1 0 0	100 ...	18 0 0
	Medar do.	500	.....	0 8 0	100 ...	2 8 0
	Bamboos	700	.....	0 4 0	100 ...	1 12 0
	Seebs	200	.....	0 2 0	100 ...	0 4 0
			C. ft.			
	Nana planks	...	4 8 10	1 6 0	C. ft. ...	6 8 2
	Teak battans	...	58 0 9	...	.....	77 5 11
			Khds. q. g. t.			
Public Works Department, Dhárwár.	Do. logs	...	4 1 3 19	18 0 0	Khandi ...	80 0 11
			C. ft.			
	Do. scantlings	...	818 7 3	...	.....	1,806 14 3
	Do. planks	...	492 11 10	...	.....	1,001 11 3
	Carried over ...	...	.....	...	.....	5,724 1 10

No. 64.

SOUTHERN CIRCLE.

sold to Public Departments from Depôts during 1884-85.

OF REVENUE.		COST TO FOREST DEPARTMENT.			COMPARISON OF REVENUE AND EXPENDITURE.	
Received.	Outstanding.	Timber Expenses under A. I.	Quota of all other Expenditure against Timber, &c.	Total.	Surplus.	Deficit.
of Kánara.						
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
3,917 12 3	.....	1,528 8 5	.....	1,528 8 5	.....	.....
1,254 2 5	.....	583 5 2	.....	583 5 2	.....	.....
531 11 5	.....	324 4 0	.....	324 4 0	.....	.....
911 10 0	.....	303 14 0	.....	303 14 0	.....	.....
776 4 0	.....	310 8 0	.....	310 8 0	.....	.....
74 4 0	.....	11 14 1	.....	11 14 1	.....	.....
1,298 5 7	.....	292 2 1	.....	292 2 1	.....	.....
71 12 5	.....	29 8 6	.....	29 8 6	.....	.....
2,630 8 4	.....	493 3 7	.....	493 3 7	.....	.....
39,016 2 11	.....	6,752 12 10	.....	6,752 12 10	.....	.....
199 6 4	.....	56 1 3	.....	56 1 3	.....	.....
1,749 1 11	.....	491 15 0	.....	491 15 0	.....	.....
24,583 9 0	.....					
13,720 0 0	.....					
2,568 13 6	.....	16,253 15 0	.....	16,253 15 0	.....	.....
102 1 2	.....					
37 14 0	.....					
93,443 7 3	.....	27,431 15 11	.....	27,431 15 11	66,011 7 4	.....
of Kánara.						
586 8 7	.....	120 15 0	57 2 11	178 1 11	408 6 8	.....
693 1 7	.....	131 0 0	65 3 4	196 3 4	496 14 3	.....
243 13 0	.....	38 0 0	33 0 0	71 0 0	172 13 0	.....
241 11 9	.....	49 10 0	29 0 8	78 10 8	163 1 1	.....
193 2 3	.....	37 11 0	19 10 7	57 5 7	135 12 8	.....
705 7 10	.....	221 4 0	61 3 10	282 7 10	423 0 0	.....
30 4 4	.....	10 0 0	15 0 0	25 0 0	5 4 4	.....
35 0 0	.....	10 0 0	3 0 0	13 0 0	22 0 0	.....
18 0 0	.....	3 10 0	3 2 0	6 12 0	11 4 0	.....
2 8 0	.....	0 8 0	0 8 0	1 0 0	1 8 0	.....
1 12 0	.....	0 4 0	0 4 0	0 8 0	1 4 0	.....
0 4 0	.....	0 1 0	0 1 0	0 2 0	0 2 0	.....
6 8 2	.....	1 0 0	0 8 0	1 8 0	5 0 2	.....
77 5 11	.....	15 0 0	8 5 11	23 5 11	54 0 0	.....
80 0 11	.....	20 0 0	10 0 11	30 0 11	50 0 0	.....
1,806 14 3	.....	436 14 0	186 7 0	623 5 0	1,183 9 3	.....
1,001 11 3	.....	225 6 0	142 14 3	368 4 3	633 7 0	.....
5,724 1 10	.....	1,321 3 0	635 8 5	1,956 11 5	3,767 6 5	.....

FORM

Name of Department.	Particulars of Supplies.	Amount supplied.		Rate.		Amount
		Number.	Contents.	At.	Per.	Due.
						Central Division
			Khds. q. g. t.	Rs. a. p.		Rs. a. p.
	Brought forward ...	...	.....	...	.....	5,724 1 10
Director of Indian Marine.	Teakwood	...	10 3 1 0	35 0 0	Khandi ...	355 5 5
	Do.	...	138 0 1 16	30 0 0	Do. ...	4,142 11 2
	Do.	...	60 0 4 4	25 0 0	Do. ...	1,505 4 0
	Do.	...	39 0 0 7	18 0 0	Do. ...	702 5 0
District Registrar of Kánara.	2 tables and 3 chairs ...	5	.....	Fixed.	.....	20 8 9
Divisional Forest Officer, Dhárwár.	Timber	...	.....	...	.....	4 8 0
			C. ft.			
Executive Engineer, Poona and Kirkee.	Teakwood...	...	750 4 5	2 3 2	C. ft. ...	1,649 3 11
Southern Marátha Railway Company.	Teak scantlings	...	2,189 4 8	...	.....	4,355 13 4
	Do signal Posts ...	...	282 7 4	3 8 0	C. ft. ...	857 7 0
			Khds. q. g. t.			
	Do. logs	...	2 0 4 11	24 0 0	Khandi ...	53 7 4
	Do. sleepers, rectangular.	16,075	.....	2 9 6	Sleeper ...	43,158 8 7
	Do. do. half round 10"...	20,442	.....	2 0 0	Do. ...	40,884 0 0
	Do. do. do. 8"...	9,626	.....	1 10 6	Do. ...	15,943 1 0
	Cracked do. rectangular.	241	.....	1 0 3	Do. ...	244 12 3
	Do. do. half round 10".	128	.....	0 13 2	Do. ...	105 5 4
	Sleeper slabs	12,837	.....	0 4 0	Slab ...	3,209 4 0
	Rejected sleepers... ...	31	.....	1 0 0	Sleeper ...	31 0 0
			Khds. q. g. t.			
	Stock timber	...	99 0 0 16	2 4 0	Khandi ...	223 1 9
	Carriage on timber, sleepers, &c.	...	.....	...	.....	14,673 2 2
	Honi and Matti wood ...	...	17 1 0 16	16 0 0	Khandi ...	276 10 3
	Cart-hire on teak logs ...	...	102 0 4 11	2 8 0	Do. ...	255 9 1
			C. ft.			
	Sawn teak timber ...	...	1,239 6 3	1 4 0	C. ft. ...	1,549 6 5
					Total ...	1,39,924 8 7
						Southern Division
			Khds. q. g. t.			
Public Works Department, Kánara.	Junglewood	...	1 1 1 5	6 8 0	Khandi ...	40 5 1
	Do.	...	5 1 0 9	6 0 0	Do. ...	
	Do.	...	1 2 0 6	6 0 0	Do. ...	9 1 5
	Teakwood	...	0 1 4 16	11 8 0	Do. ...	
	Rejected sleepers... ...	...	.....	0 10 6	Each ...	8 0 3
		4				
			Khds. q. g. t.			
Public Works Department, Kánara.	Nandi	...	1 3 4 1	6 8 0	Khandi ...	28 3 0
	Matti	...	1 1 3 17	6 4 0		
	Jalal	...	1 2 0 12	4 14 0		
	Nandi	...	1 1 1 2	6 0 0		
	Matti	...	1 2 2 1	6 4 0	Do. ..	17 13 6
	Sleepers	...	.....	...	.....	75,959 9 6
Southern Marátha Railway Company.		33,722				
					Total ...	76,063 0 9

No. 64—*continued.*

OF REVENUE.		COST TO FOREST DEPARTMENT.			COMPARISON OF REVENUE AND EXPENDITURE.	
Received.	Outstanding.	Timber Expenses under A. I.	Quota of all other Expenditure against Timber, &c.	Total.	Surplus.	Deficit.
of Kánara.—continued.						
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
5,724 1 10	.....	1,321 3 0	635 8 5	1,956 11 5	3,767 6 5	.....
355 5 5	.....	55 0 0	15 0 0	70 0 0	285 5 5	.....
4,142 11 2	.....	850 0 0	150 0 0	1,000 0 0	3,142 11 2	.....
1,505 4 0	.....	200 0 0	150 0 0	350 0 0	1,155 4 0	.....
702 5 0	.....	20 0 0	12 0 0	32 0 0	670 5 0	.....
20 8 9	.....	4 0 0	2 0 0	6 0 0	14 8 9	.....
4 8 0	.....	1 8 0	0 8 0	2 0 0	2 8 0	.....
1,649 3 11	.....	500 0 0	150 0 0	650 0 0	999 3 11	.....
4,355 13 4	.....	1,350 0 0	179 0 0	1,529 0 0	2,826 13 4	.....
857 7 0	.....	350 0 0	57 0 0	407 0 0	450 7 0	.....
53 7 4	.....	10 0 0	3 0 0	13 0 0	40 7 4	.....
43,158 8 7	.....	2,000 0 0	1,500 0 0	3,500 0 0	39,658 8 7	.....
40,884 0 0	.....	1,500 0 0	1,000 0 0	2,500 0 0	38,384 0 0	.....
15,943 1 0	.....	1,000 0 0	700 0 0	1,700 0 0	14,243 1 0	.....
244 12 3	.....	44 0 0	15 0 0	59 0 0	185 12 3	.....
105 5 4	.....	10 0 0	5 0 0	15 0 0	90 5 4	.....
3,209 4 0	.....	250 0 0	100 0 0	350 0 0	2,859 4 0	.....
31 0 0	.....	10 0 0	1 0 0	11 0 0	20 0 0	.....
223 1 9	.....	50 0 0	20 1 9	70 1 9	153 0 0	.....
14,673 2 2	.....	.....	.....	.....	14,673 2 2	.....
276 10 3	.....	75 0 0	15 0 0	90 0 0	186 10 3	.....
255 9 1	.....	70 0 0	25 0 0	95 0 0	160 9 1	.....
1,549 6 5	.....	549 0 0	100 0 0	649 0 0	900 6 5	.....
1,39,924 8 7	.....	10,219 11 0	4,835 2 2	15,054 13 2	1,24,869 11 5	.....
of Kánara.						
40 5 1	.....	.....	.....	.....	40 5 1	.....
9 1 5	.....	.....	.....	.....	9 1 5	.....
8 0 3	.....	.....	.....	.....	8 0 3	.....
28 3 0	.....	.....	.....	.....	28 3 0	.....
17 13 6	.....	.....	.....	.....	17 13 6	.....
75,959 9 6	.....	.....	.....	28,511 8 5	47,448 1 1	.....
76,063 0 9	.....	.....	.....	28,511 8 5	47,551 8 4	.....

FORM

Name of Department.	Particulars of Supplies.	Amount supplied.		Rate.		Amount
		Number.	Contents.	At.	Per.	Due.
						Belgaum
			Khds. q. g. t.	Rs. a. p.		Rs. a. p.
Police Department ...	Teakwood...	4	11 3 2 2	19 0 0	Khandi ...	225 3 11
	Junglewood	4	13 2 2 3	12 11 4	Do. ...	172 14 8
					Total ...	398 2 7
						Dhárwár
Public Works Department, Dhárwár.	Teak trees	2	.....	10 0 0	1	20 0 0
	Do. rafters, I class ...	4	.....	5 0 0	1	20 0 0
	Do. do. II do. ...	4	.....	2 12 0	1	11 0 0
	Do. do. III do. ...	13	.....	2 0 0	1	26 0 0
	Do. do. IV do. ...	15	.....	1 0 0	1	15 0 0
	Do. do. V do. ...	60	.....	0 12 0	1	45 0 0
	Matti posts, I do. ...	3	.....	3 0 0	1	9 0 0
	Do. rafters III do. ...	20	.....	1 8 0	1	30 0 0
	Do. do, V do. ...	40	.....	0 8 0	1	20 0 0
	Teak Jirayti pieces ...	40	.....	0 6 0	1	15 0 0
	Shib bamboos	1,000	.....	1 8 0	100	15 0 0
Local Funds	Matti rafters, VI class ...	100	.....	0 6 0	1	37 8 0
	Douge bamboos ...	200	.....	4 0 0	100	8 0 0
	Shib do. ...	3,000	.....	1 0 0	100	30 0 0
Southern Marátha Railway Company.	Firewood stacks... ...	2,743	.....	1 0 0	1	2,743 0 0
	Cart-loads of stones ...	4,429	.....	0 1 0	1	276 13 0
					Total ...	3,321 5 0
						Kolába
Public Works Department, Kolába.	Teak pieces of different classes.	230	.....	...	.....	150 0 0
					Grand Total of the Southern Circle ...	3,13,300 8 2

Conservator's Office, Southern Circle, Camp Yellápur, Kánara Districts, 15th October 1885.

No. 64—*concluded.*

OF REVENUE.		COST TO FOREST DEPARTMENT.			COMPARISON OF REVENUE AND EXPENDITURE.	
Received.	Outstanding.	Timber Expenses under A. I.	Quota of all other Expenditure against Timber, &c.	Total.	Surplus.	Deficit.
Division.						
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
225 3 11 172 14 8	....	148 8 5	.....	148 8 5	249 10 2	.....
398 2 7	.....	148 8 5	.....	148 8 5	249 10 2	.....
Division.						
20 0 0 20 0 0 11 0 0 26 0 0 15 0 0 45 0 0 9 0 0 30 0 0 20 0 0 15 0 0 15 0 0	....	44 15 9	.....	44 15 9	181 0 3	.....
37 8 0 8 0 0 30 0 0	....	.....	.....	.....	75 8 0	.....
2,743 0 0 276 13 0	....	929 13 6	.....	929 13 6	1,813 2 6 276 13 0	.....
3,321 5 0	.....	974 13 3	.....	974 13 3	2,346 7 9	.....
Division.			.....	.....	.....	.....
150 0 0	.....	.....	.....	.....	150 0 0	.....
3,13,300 8 2	.....	.....	.....	72,121 11 2	2,41,178 13 0	.....

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

FORM No. 65.

FOREST DEPARTMENT, SOUTHERN CIRCLE.

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1884-85.

Description of Timber and other Produce.	On hand at commencement of the year.			On hand at the close of the year.			Difference in Value.		Remarks.
	Number.	Measurement.	Value.	Number.	Measurement.	Value.	In favour of the year.	Against the year.	
		Khds. q. g. t.	Rs. a. p.		Khds. q. g. t.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Teak logs	6,036	7,540 1 3 0	1,10,110 0 0	6,021	9,728 2 3 1	1,54,635 0 0	44,525 0 0	.....	
Do. poles	2,473	.....	639 0 0	1,563	.....	1,231 0 0	592 0 0	.....	
Do. small pieces	69	.....	200 0 0	.....	.....	.....	.....	200 0 0	
Do. 1st class rafters	.....	.....		200	.....				
Do. 2nd do.	1,087	.....		1,108	.....				
Do. 3rd do.	2,169	.....	2,200 0 0	1,461	.....	2,200 0 0	.....	.....	
Do. 4th do.	2,745	.....		1,774	.....				
Do. miscellaneous pieces	1,469	.....		3,163	.....				
Do. sleeper round pieces	6,405	.....	12,810 0 0	11,488	.....	22,976 0 0	10,166 0 0	.....	
Do. sleepers	8,022	.....	8,022 0 0	6,987	.....	6,987 0 0	.....	1,035 0 0	
Do. slabs	2,539	.....	634 12 0	32,902	.....	4,727 0 0	4,092 4 0	.....	
Timber	1,359	981 0 0 16	9,373 6 7	919	971 2 4 3	9,889 11 2	516 4 7	.....	
Blackwood	14	23 1 0 6	276 0 0	105	161 2 3 11	2,325 0 0	2,049 0 0	.....	
Junglewood logs	30	49 1 0 10	490 0 0	275	530 3 0 18	8,340 0 0	7,850 0 0	.....	
Do. rafters	2,532	.....	5,064 0 0	1,101	.....	2,202 0 0	.....	2,862 0 0	
Do. pieces	3	.....	1 0 0	.....	.....	.....	.....	1 0 0	
Jiráyatwood	16,407	.....	3,280 0 0	21,744	.....	4,350 0 0	1,070 0 0	.....	
					Khds. mds.				
Sandalwood billets	.....	.....	.....	3,133	30 8	3,040 0 0	3,040 0 0	.....	
Sitting boards, 2nd class	42	.....	18 0 0	.....	.....	.....	.....	18 0 0	
Do. 3rd do.	3	.....	0 15 0	1	.....	0 5 0	.....	0 10 0	
Do. 4th do.	728	.....	90 0 0	115	.....	15 0 0	.....	75 0 0	
Brakes for traffic carts, 1st class	312	.....	13 0 0	249	.....	10 0 0	.....	3 0 0	
Do. do. 2nd do.	156	.....	4 0 0	22	.....	0 9 0	.....	3 7 0	
Agricultural implements	6	.....	15 0 0	.....	.....	.....	.....	15 0 0	
Total Timber.	54,606	8,593 3 4 12	1,53,241 1 7	94,331	.....	2,22,928 9 2	69,687 7 7	.....	
Firewood Stacks.	7,287	.....	8,075 0 0	9,733	.....	10,995 0 0	2,920 0 0	.....	
Do. Tons.	.....	2 8 0 0	2 0 0	.....	.....	.....	.....	2 0 0	
Do. Head-loads.	.....	.....	.....	6,964	.....	181 0 0	181 0 0	.....	
Do. Cart-loads.	.....	.....	.....	121	.....	121 0 0	121 0 0	.....	
Bamboos	34,400	.....	172 0 0	*18,825	.....	.....	.....	172 0 0	*All rotten. Hence no value.
		Khds. mds. s.			Khds. mds. s.				
Shigekái	.....	8 6 3	153 12 4	.....	68 0 0	1,414 15 0	1,261 2 8	.....	
Hirda	.....	8 13 24	119 13 11	.....	290 4 37½	4,563 13 0	4,443 15 1	.....	
Grass Bundles.	142,295	.....	300 0 0	142,771	.....	305 0 0	5 0 0	.....	
Total	183,982	.....	8,822 10 3	178,414	.....	17,580 12 0	8,758 1 9	.....	
GRAND TOTAL	238,588	.....	1,62,063 11 10	272,745	.....	2,40,509 5 2	78,445 9 4	.....	

Conservator's Office, Southern Circle, Camp Yelláp ur, Kánara Districts, 15th October 1885.

W. PEYTON, Colonel,
Conservator of Forests, Southern Circle.

No. $\frac{P.R.}{705}$ OF 1886.

REVENUE DEPARTMENT.

Poona, 31st March 1886.

This report was only received on the 27th and is submitted to Government with as little delay as possible.

2. Colonel Peyton's report however is so full and thoughtful that undersigned need make but few remarks.

3. Now that a special Forest Settlement Officer has been appointed for Bijápur, the work of demarcation and settlement will be pushed on with vigour, and will, it is expected, be completed in two years.

Paragraph 23.

4. Mr. Logan's work was impeded owing to certain legal difficulties. But they have now been solved after a consultation with the Legal Remembrancer and Mr. Logan has received definite instructions from undersigned.

Paragraph 24.

5. Undersigned fully endorses Colonel Peyton's high opinion regarding Mr. Sinclair's work.

Paragraph 29.

6. Undersigned strongly supports Colonel Peyton's judicious proposals regarding the cuttings in some sort of rotation of forests in which shares of profit are claimed for their protection by khots.

Paragraph 52.

7. The decrease in the number of prosecutions for forest offences and the large number of commuted cases show that in this respect the Forest Officers exercised a wise discretion.

Paragraphs 59 to 65.

8. It has been remarked on more than one occasion that the grazing system adopted in Kánara, Belgaum and Dhárwár has been deservedly popular and the past year's experience again justifies the system. The circular issued by Colonel Peyton and appended to the report while taking effective measures for the prevention of fires, gives all reasonable facilities to the people. Undersigned need not observe that he entirely approves of it.

Paragraphs 69 to 77.

9. The financial results of the year are satisfactory. The forest revenue of Kánara will, it is expected, steadily rise with the opening of the West Deccan Line and the completion of the Southern Marátha Railway system.

Paragraphs 170 to 186.

10. Colonel Peyton's tour was well arranged. His supervision was thorough, and whatever may be agitation temporarily raised by professional or hired grievance-mongers in order to make capital before the Forest Commission, undersigned knows that his administration has been just, considerate and sympathetic with the people.

(Signed) A. CRAWFORD,
Commissioner, S. D.

B 359—19 s c

SIND CIRCLE.

No. 805 OF 1885-86.

From

THE CONSERVATOR OF FORESTS,
Sind Circle;

To

THE SECRETARY TO GOVERNMENT,
Bombay.

Conservator's Office,
Hyderabad, 21st September 1885.

SIR,

With reference to paragraph 254 of the Forest Department Code, I have the honour to submit herewith the Administration Report of Sind Forest Circle for the year 1884-85.

2. Form No. 56 will be submitted as soon as it is received, *vide* paragraph 255 of the Forest Code, from the Accountant General, Bombay.

3. I regret the delay in submitting the report, but the introduction of the new system of accounts has entailed much additional work that the divisional office clerks were not accustomed to, and great difficulty has been experienced in obtaining the requisite forms properly filled in.

I have the honour to be,
Sir,
Your most obedient Servant,
J. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

Through the Commissioner in Sind.

No. 4281 OF 1885.

REVENUE DEPARTMENT.

Commissioner's Office,
Karáchi, 27th October 1885.

Submitted to Government.

2. It is by no means easy to get a very clear or concise view of the year's administration from the body of this new form of Forest Report. But it appears from Appendix (Annual Form No. 49) that adding together the areas of the four Forest Divisions the total area of Reserved Forest last year amounted to 402,243 acres or 628 square miles, and that this area has been increased during the year under report by the addition of 4,822 acres in Naushahro Division, making a total area this year of 407,065 acres or 636 square miles.

3. It further appears from the Appendices that the total revenue of the Department during the year was Rs. 4,76,492-11-8 and that the grand total of expenditure amounted to Rs. 3,62,443-0-3, showing a net revenue of Rs. 1,14,049-11-5 or, say, of Rs. 1,14,050, which, compared with the net revenue of the previous year, *viz.* Rs. 1,57,918, shows a falling off of Rs. 43,868 due chiefly to a decrease in sale of fuel to the State Railway. It cannot be concealed that the existence of the Forest Department in Sind as a revenue-yielding branch of the administration depends on the continuance of the demand for railway fuel and should, as may happen any day, the search for petroleum in the Sibi hills result in the discovery of cheaper fuel for railway purposes it would become necessary to largely reduce the present Forest Establishment in this Province.

4. The work of forest demarcation and settlement has made steady progress during the year and next year's report will show a largely extended forest area. During the year under report 8 square miles of Reserved Forest have been added to existing reserves and all claims within this area have been finally disposed of.

5. The forest area was reduced by 4,890 acres this year by erosion, but gained by accretion 5,375 acres.

6. With the increased extent of provisionally notified and finally demarcated forest area offences against the forest laws have, as might be expected, increased also, but the fact that nearly half of the cases of forest offences, *viz.*, 4 cases of injury by fire, 79 of unauthorized felling of wood and misappropriation of minor forest produce, and 9 other offences resulted in acquittals, points (it is to be feared) to injudicious prosecutions in many cases.

7. Forest fires appear to have been nearly as numerous but not quite so destructive as in the previous year. The Conservator explains why it is so difficult to prevent fires in jungle occupied by the "Sar" weeds, and suggests that "as it is hopeless to expect forests to grow in land so completely infested with weeds" it is a question, whether "it would not be wiser to set apart all compartments which are overgrown with weeds as grazing grounds pure and simple," charging grazing fees at double rates on account of the better grazing gained by systematic firing.

8. This at first sight seems an extraordinary proposal, but the Conservator proceeds to explain that when the inundation water submerges the charred roots of the weeds or reeds after burning it kills them and "what was apparently a sea of grass and weeds becomes in a few years a promising forest." So that a system of judicious burning proves not only the best means of providing a ready supply of grass, but may possibly, if timed so as to precede a high inundation, facilitate the growth of a forest.

9. The year was marked by the destruction of the "Divi-Divi" plantation by rats who burrowed deep underground and gnawed the roots of the young trees. The Conservator states that this happened "in spite of all efforts" to prevent it, but seeing that the plantation was only 10 acres in extent, it ought, the Commissioner thinks, to have been possible to destroy or eject the pests before they did such serious damage.

10. The Conservator says "the planting of Divi-Divi will be abandoned and some other tree substituted," and the Commissioner agrees with him as to the desirability of this experiment having now shown that the Divi-Divi tree grows well in many parts of Sind and there is no great use in the Forest Department continuing to illustrate this. At the present time it may be seen growing well in the municipal gardens in Karáchi, formerly it flourished in the experimental garden attached to the Salaru Farm, and there is every reason to believe that it would do equally well in other parts of Sind. But whether it is worth growing or not is open to question. At any rate unless Government is prepared to grow it in sufficiently large quantities to create the beginning of an export trade further planting on the part of Government seems but of little use and the people do not seem inclined to devote their attention to its cultivation.

11. With regard to the working of the various depôts in the Province it is not owing to changes in management easy to form a clear opinion, *e. g.*, the sales of fuel at the Kotri Depôt rose from 16,858 maunds in 1883-84 to 1,04,514 maunds in the year under report and the sale of posts and rafters at the Shikárpur Depôt fell from 12,445 last year to 42 in this year, but the Conservator explains that the increase in the former case is merely due to a change in system by which the wood supplied to the steam ferry has been passed through the Depôt Accounts "instead of being treated as a separate arrangement as heretofore," while the falling off at the Shikárpur Depôt has been due to departmental arrangements for selling in the forests instead of at the depôt, a change of very doubtful benefit and apparently antagonistic to the principle on which depôts are established in large centres. At Karáchi the amount of fuel sold fell from 26,600 maunds to 11,500 owing to importations by local traders, while at the Hyderabad Depôt sales of fuel rose from 55,874 maunds to 74,803 maunds, in consequence, it

is stated, of the energy with which Mr. Showkirám, Sub-Assistant Conservator, worked the depôt. The share system of working the depôts seems to have succeeded well, and the difficulty with regard to the accumulation of unsold timber remaining over on the expiration of a contractor's term can be got over as in the case of liquor, opium and similar contracts by obliging the new contractor to take over the balance as part of the share contract at cost price. Colonel McRae makes some interesting calculations with regard to the cost at which coal and wood can be supplied to the railway, but he has omitted to take into consideration some important considerations. He comes to the conclusion that for public interests it would be better for a State Railway to use fuel grown in State forests than to pay for imported coal. He shows that the ordinary price of coal in Karáchi is Rs. 18 a ton, whereas the equivalent of a ton of coal steam-generating power in wood can be delivered at the changing stations along the line at a cost of Rs. 10 or at most Rs. 15.

12. There has been a marked decrease of 5,94,624 maunds in the consumption of Sind forest fuel by the State Line, and this has, as already noticed, chiefly caused the large falling off of Rs. 43,868 in forest receipts this year. There was also a falling off in receipts from timber removed from forest by purchasers owing to smaller demands. The Gun Carriage Factory in Bombay was supplied with 350 logs measuring 4,826 cubic feet and efforts were made to create an export trade in firewood with Bombay, but it is too soon yet to judge whether this is likely to be successful or not. The Conservator mentions that no mercantile firm at Karáchi was prepared to ship bábul bark to Europe as a speculation, and consequently a further consignment of this bark has been sent to Europe by the Forest Department as an experiment.

13. It is satisfactory to find that Colonel McRae has been able to verify his belief that "Kandi" will coppice vigorously independently of surface irrigation. Colonel McRae was absent during the greater part of the tour season, but he found the few forests he was able to inspect in good condition. He ignores the inspections made by his *locum tenens* during his absence and so affords no accurate information regarding the state of the forests generally.

H. N. B. ERSKINE,
Commissioner in Sind.

FOREST ADMINISTRATION REPORT

OF THE

PROVINCE OF SIND

FOR THE OFFICIAL YEAR 1884-85.

CHAPTER I.

SUMMARY OF ADMINISTRATION DURING THE YEAR.

Forest demarcation and settlement has been in progress during the year, and though only 8 square miles, in Shikárpur and Labdárya Tálukas, Shikárpur Collectorate, have been added to the Sind forests as Reserved Forests finally notified as such under Section 19, the Forest Demarcation and Settlement Officer has completed his enquiries and submitted his settlement report of the land to be taken up for forest purposes in the Thul, Jacobabad and Labdarya Tálukas.

2. Thirty blocks aggregating 92,156 acres have been notified under Section 4 during the year, and all, if not very nearly all, the land that is desirable to take up for forest purposes has been selected or notified.

3. The final orders of Government remain to be passed in respect of 8 blocks aggregating 67,708 acres, the forest demarcation and settlement reports on which have been sent in by Forest Settlement Officers in previous years.

4. An area of 4,890 acres was lost by the action of the river; of this 2,295 acres was land of old formation. An area of 5,375 was added to the river frontages of forests in the shape of katchas or accretions of freshly formed alluvial land.

5. There is an increase in the number of forest offences taken for disposal before Magistrates, but there is a much larger decrease in the number of forest offences disposed of under Section 67 of the Indian Forest Act by Forest Officers.

6. The protection of the forests has been on the whole good, and the forest fires, though nearly as numerous as in the year preceding the one under report, have not been nearly so destructive.

7. In regular plantations no works of an important nature have been undertaken. An aggregate area of 3,359 acres has been closed for natural reproduction aided when necessary with broadcast sowings. An area, 28,247 acres of land, previously closed, has been opened to grazing, the reproduction having made sufficient progress to be safe from cattle.

8. The work of cutting the forests up into compartments under the working plan has been pushed on.

Two hundred and sixty-nine miles of compartment lines having been added during the year, and fair progress has been made with the topographical survey of the forests on a scale of 8 inches to the mile, necessary for working plan.

9. The boundary marks and cleared boundary paths are reported to be in satisfactory order.

10. During the progress of the revision survey by Revenue Survey Department some slight errors have been discovered in the boundaries of forests which have been corrected.

11. Depôts for the sale of timber, firewood and charcoal, &c., have been maintained at Karáchi, &c., as heretofore for the supply of local markets at which timber, &c., of the following quantity and value was disposed of:—

Bábul timber	...Cubic feet	16,644
Bahan timber	...Cubic feet	3,424
Bábul and other logs	...No.	2,582
Posts and rafters	...No.	138,050
Sleepers	...No.	600
Charcoal	...Maunds	3,927
Firewood	...Maunds	2,13,198

12. The depôt at Hyderabad was worked on the share system; at all the others the timber, &c., was cut and brought to depôt by Departmental Agency and disposed of by periodical auctions and retail sale.

13. The following quantity of timber was supplied to Public Works and other Departments :—

Name of Department.	Quantity and Description of timber.	Value.
		Rs.
Public Works Department	489 cubic feet ...	122
Port Engineer, Karáchi...	600 sleepers ...	1,800
Indus Valley State Railway	3,346 cubic feet ...	4,646

14. There has been a very large falling off in the quantity of locomotive fuel required by the Indus Valley State Railway owing to decrease in traffic; the quantity taken being less than two-thirds of the quantity taken in the previous year.

15. It is probable the rate at which locomotive fuel is delivered to the railway will have to be raised next year at the Rádhan Station owing to the increased lead in the transport of the wood. The forests from which this station should be supplied are on the left bank of the river and contain an abundance of most excellent material, but cannot be worked at the present rate allowed by the railway.

16. The cities of Shikárpur, Sukkur and Hyderabad and the towns of Lárkhána were supplied with firewood under the "Ghát" or permit pass system, giving aggregate receipts of Rs. 23,775, showing an excess of Rs. 2,881 over the previous year. This system of collecting forest revenue will soon have to be abandoned, as its success depends on the enforcing of the Pass Rules, which cannot be done, now that wood cut on private holdings does not require to be covered by a pass.

17. The following shows the quantity of firewood supplied to departments, public bodies and traders, &c.:—

To whom supplied.	Maunds per Annum.				
	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.
	Mds.	Mds.	Mds.	Mds.	Mds.
Indus Steam Flotilla	4,32,812	1,59,860	59,712	8,031	...
Indus State Railway	9,87,718	7,11,194	10,60,635	16,43,780	10,54,156
Sind Railway	...	...	...	26,225	21,750
Commissioner's Steamer ...	3,750	9,225	7,024	9,271	9,288
Punjab Government Steamer...	6,025	6,292	1,940	5,400	2,700
Indus Ferry Steamers... ...	52,750	52,262	29,812	23,350	1,72,075
River Conservancy Department.	7,889	5,606	5,525	7,588	6,589
Public Works Department ...	946	71	2,676	31	224
Karáchi Harbour Works ...	37,172	42,772	94,169	73,989	68,391
Naváb of Bahawalpur's Steamer	6,112	62	4,842	6,743	...
Ice Factories	...	2,490	5,342	7,075	1,500
Commissariat Department ...	40,206	31,147	26,441	22,122	30,581
Hyderabad Water-works ...	11,750	11,750	25,225	32,000	24,725
Assam Trading Company ...	...	4,238	12,125	...	...
Sukkur Municipality	...	...	1,100	2,675	3,850
Hyderabad Jail	...	...	...	364	2,959
Richardson Crudas & Company	...	...	...	54	...
Government Farm, Hyderabad.	...	...	...	937	3,500
Total ...	15,87,130	10,36,969	13,36,568	18,74,635	14,02,288

18. With a view to establishing an export trade with Bombay in firewood from Lower Sind, a monopoly for three years has been given to a contractor who undertakes to cut and remove yearly at his own expense 300,000 cubic feet, paying a royalty of Rs. 10 per 1,000 cubic feet and in default to pay the full royalty on all wood short of 300,000 cubic feet not removed within the year and be liable to have his monopoly cancelled.

19. The export of firewood to Cutch Mándvi promises to become established.

20. The financial results are not very satisfactory, as there is a decrease of Rs. 1,66,001 in gross receipts and Rs. 43,868 in net receipts as compared with the previous year, but this is almost entirely attributable to the decreased consumption of locomotive fuel by the Indus Valley State Railway. There is a decrease under A. I. (*b*) Firewood, &c., of Rs. 1,67,066 which slightly exceeds the total decrease in gross receipts, and it will be found on reference to table given in paragraph 64, Chapter II., Yield and Working, that the quantity taken by the Indus Valley State Railway was less by Mds. 5,94,624 as compared with the previous year's consumption, whereas the total decrease in the quantity of fuel supplied to all departments, public bodies, &c., is 4,72,347 maunds.

21. The Government of India's Forest Department Code was adopted for the account system of the Forest Department from 1st April 1884. The change of system has much increased the clerical work in the Divisional Forest Officers' offices and makes a revision of office establishment as proposed very necessary.

22. The following changes took place in the personnel of the superior staff of the Sind Forest Circle.

Lieutenant-Colonel McRae was appointed to act as Conservator of Forests, 2nd Grade, and placed in charge of the Northern Circle and left Sind on the 19th April 1884.

Mr. W. S. Hexton was appointed to act as Conservator of Forests, 3rd Grade, and received charge of the Sind Circle from Lieutenant-Colonel McRae on the 19th April 1884.

Lieutenant-Colonel McRae returned to Sind and received charge of the Sind Circle on the 14th February 1885 from Mr. Hexton.

Mr. Showkiram Pribdas, Head Accountant in the office of the Conservator of Forests, Sind Circle, having been appointed Sub-Assistant Conservator of Forests, was placed in charge of the office of the Divisional Forest Officer, Hyderabad, from the 15th April 1884 to the 13th February 1885 and was relieved by Mr. Hexton on the 14th idem. Mr. Greatheed took furlough for 18 months and was relieved of the charge of the office of Divisional Forest Officer, Sukkur, by Mr. Gleadow, Divisional Forest Officer, Jacobabad, on the 15th May 1884, who held charge of the latter division till the 1st July 1884.

Mr. Assudamal Esardas, Head Clerk in the office of the District Judge, Shikárpur, who was appointed to act as Sub-Assistant Conservator of Forests, received charge of the Jacobabad Division from Mr. Gleadow on the 1st July 1884.

Mr. Showkiram Pribdas assumed charge of the office of the Divisional Forest Officer, Jacobabad, from Mr. Assudamal Esardas on the 10th March 1885.

CHAPTER II.

RESERVED FORESTS.

SECTION I.—AREA AND BOUNDARIES.

23. The following table gives the area of the Sind forests as it stood on 31st March 1884, and the additions thereto and the exclusions therefrom that have taken place during the year under report:—

Area as it stood on 31st March 1884.		Area added during the year 1884-85.		Area excluded during the year 1884-85.		Area as it stood on 31st March 1885.	
Sq. miles.	Acres.	Sq. miles.	Acres.	Sq. miles.	Acres.	Sq. miles.	Acres.
628	323	7	342	.....		636	25

There is a discrepancy of two square miles and 624 acres between the area shown in the last Annual Report, as existing on 31st March 1884 and that shown in the first column above; this is due to correction of old standing errors in former reports, which have been discovered by the acreage of each forest being taken out separately for Form No. 49 and the whole added together to give the total area.

24. The statement given below gives details of land selected for forest purposes and notified under Section 4 during the last and previous years and land finally settled and constituted Reserved Forest during the year under report :—

Land selected for Forest purposes and notified under Section 4.				Land finally settled and constituted Reserved Forests during the year under Report.		
Name of Forest.	Táluka.	Area in Acres.	Year in which originally notified.	Name of Forest.	Táluka.	Area in Acres.
Shikárpur	Shikárpur ...	49,159·0	29th December 1880.	Karampur...	Sehwan ...	1,136·25
Pir Nazir	Do. ...	18,549·0	1882.	Dangar ...	Kakor ...	3,684·39
Kapershah						
Mohro Mari						
Amroti	Labdarya ..	10,844·0	1882.			
Muso	Do. ...	4,311·0				
Gidarji	Mánjhand ...	1,368·0	1882.			
Khathar	Hyderabad ...	45·37	1882.			
Sarki	Thul ...	4,087·3	1883.			
Korar		1,143·1				
Jalálpur		472·25				
Dilmurád		1,704·29				
Zangipur		5,442·25				
Beluchabad		1,100·				
Abad	Jacobabad ...	85·10	1883.			
Garhichand		1,041·38				
Mehrabpur		597·21				
Bachalpur		1,074·30				
Akilpur		509·13				
Dilawarpur		962·23				
Milkiat Sarcar		910·2				
Shahdádpur		706·1				
Bakapur...		1,500·				
Alipur		7,500·				
Bhan	Sehwan ...	1,242·	1883.			
Kalubori...		791·				
Bagban	Dádú ...	2,357·	1883.			
Phaka		2,009·				
Pipri		916·				
Karampur	Sehwan ...	1,958·35	1884.			
Shahgar	Do. ...	579·5				
Adamji	Naushahro...	24,071·35	1884.			
Madeji						
Tarai						
Mangi						
Ruk						
Gaheja						
Sharifpur	Ráto-dero ...	5,902·				
Phulpotra						
Izatkhán...						
Nurpur						
Bahman						
Shadiabro						
Nazar Detho						
Dadokhán						
Phaka	Dádú ...	197·10	1884.			
Bakrani		194·15				
Ali Ganj...	Tatta ...	431·20	1884.			
Hilaya		849·18				
Shah Lonko		312·10				
Tatta		12,388·30				
Garko		933·23				
Chhachh...		3,361·27				
Ghangherko	Tigir and Labdarya.	6,210·30	1884.			
Budo-dero		1,617·15				
Soi		5,851·				
Gajidero		5,661·15				
Rohri	Rohri... ..	15,393·3	1885.			
Bahman	Ráto-dero ...	356·8	1885.			
Shadiabro						
Ghangherko	Tigir	2·	1885.			
Lakhi	Sukkur ...	3,592·15	1885.			
Ghari Halim		2,081·20				
Garhichand	Jacobabad ...	19·35	1885.			
Dilmurád	Thul	48·9	1885.			
Bangal Kolachi...	Mirpur ...	89·0	1885.			
Total Acres ...	.....	312,585·36				

25. The Forest Settlement Officer has completed his inquiries in respect of the forest settlement of the following tálukas during the year, and submitted his reports, so that the land proposed to be taken up for forest purposes will be probably constituted Reserved Forests during the current year, Tálukas Thul, Jacobabad and Labdarya.

26. The settlement of the Shikárpur Reserve was effected some years ago, but the papers are still, I believe, with the Collector. The cause of delay has been that soon after the settlement was effected a large demand sprang up for land for cultivation over this tract, which had been for many years allowed to remain waste on account of the floods, and the Collector delayed the submission

of the Forest Settlement Officer's report in order to ascertain what deductions were necessary from his proposals. Very considerable alterations have been made by the Collector, and the original settlement is found to be so defective that it will probably be necessary to make a new demarcation and settlement before the matter can be finally disposed of.

27. The final notification under Section 19 of the Mahro Mari Reserve is very desirable at as early a date as possible. The first notification was published in 1882, and the final appeals settled by the Collector in March 1884; there should therefore be no reason for delaying the notification under Section 19.

28. As the people are in the habit of destroying the tree-growth on land taken up for forest purposes during the time that elapses between first notification and final settlement, the greater part, amounting to very nearly the whole of the notified land, has been placed under the protection of the Forest Department by arrangement with the Collectors of districts, but nevertheless it is very necessary that the final settlement should be effected as soon as possible; for till that is done, it is very difficult to make zamindárs understand that it is no longer available for cultivation.

29. The forest demarcation and settlement work is progressing satisfactorily. Nearly all the main tracts that it is desirable to take up for forest purposes have been either selected, demarcated or settled.

30. The table given below shows the losses and gains due to changes in the set of the river:—

Name of Division.	Area lost.			Area gained.
	Old Formation.	New Formation.	Total.	
	Acres.	Acres.	Acres.	Acres.
Sukkur	1,630	510	2,140	3,575
Nausháhro	700	635	1,335	250
Jerruck	250	100	350	150
Hyderabad	15	1,050	1,065	1,400
Jacobabad	.....	.....	.....	.....
Total ...	2,595	2,295	4,890	5,375

Of the above 2,595 acres were of old land, with some valuable forest. The trees on eroding banks were cut and the material utilized.

SECTION II.—PROTECTION AND IMPROVEMENT.

31. The following statement shows the details of forest offences as compared wish those of the previous year:—

Year.	Pending from previous years.	New Cases.	Total for Trial.	Concluded.	Convictions	Acquittals.	Cases pending at the close of the year.
1883-84... ...	Not known.	50	50	45	31	14	5
1884-85... ...	5	98	103	99	69	30	4

There is a considerable increase in the number of cases tried. The increase is in Upper Sind and must be attributed to the large area of waste land selected for forest purposes, which has been placed under the protection of the Forest Department provisionally to prevent the people destroying the tree-growth on it.

32. The petty cases disposed of by the Conservator and Divisional Forest Officers under Section 67 of the Indian Forest Act were 839 against 998 of the previous year.

33. The Divisional Forest Officer, Sukkur, complains of the insufficiency of the present protective establishment for the thorough protection of the forests;

this will be rectified when the additional establishment is sanctioned; otherwise the protection of the forests appears to have been good.

34. Forest fires are reported as not so destructive as in previous years though they have been nearly as numerous.

The following is a comparative statement of the areas burnt in each division:—

Name of Division.	Year.	Number of Fires.	Area burnt.
Jacobabad	1883-84	Nil.	Nil.
	1884-85		
Sukkur	1883-84	51	7,214
	1884-85	50	1,421
Naushâhro	1883-84	7	371
	1884-85	6	294
Hyderabad	1883-84	9	339
	1884-85	9	199
Jerruck	1883-84	6	190
	1884-85	5	80

35. Fires depend on the season. One with high innundation followed by severe frosts, which withers the grass that has grown luxuriantly during the autumn is sure to be one of extensive fires. Some parts of the Upper Sind forests are so completely taken possession of by the Sar reeds (Saccharum Munja) that it is a hopeless task to keep fires out of them, as the grass is fired by the Maldârs (cattle-breeders) for the sake of the young shoots of the Sar that come up after a fire. It is next to impossible to catch a man in the act of setting fire to the jungle, but in cases of a suspected incendiary fires it has been the practice to either close the area burnt or to impose double rates of grazing fees for six months or so in burnt areas. The first is worse than useless, as the grass grows all the stronger, and I cannot say the second has produced any good results either. As it is hopeless to expect forests to grow in land so completely infested with reeds, it is a question whether it would be not wiser to set apart all the compartments that are overgrown with reeds as grazing grounds pure and simple; let the grass be fired when necessary, and systematically charge double rate of grazing fees on cattle grazing in them. The people would pay the double fees willingly for the sake of the better grazing and one source of crime would be removed. Sometimes when a fire has occurred very late in the season, the inundation water submerges the roots of the reeds before the fresh shoots are high enough to keep their tops above water; this kills off the reeds, and should the fresh deposit of silt contain a larger proportion of tamarisk than of reed seed, the jungle changes completely. The trees that have been kept down by constant fires make rapid growth and what was apparently a sea of grass and reeds in two or three years becomes a promising forest, so that permitting the systematic burning of grass tracts, in which no forest can grow at present owing to constant fires may lead to some good and would certainly much improve the grazing and the receipts therefrom.

36. The statement required by Government Resolution No. 8810 of 30th November 1883 is given below:—

Division.	Total Forest Area.		Area protected.		Area of Failures.		Expenditure incurred.
	Square Miles.	Acres.	Square Miles.	Acres.	Square Miles.	Acres.	
							Rs.
Sukkur	240	357	238	216	2	141	132
Naushâhro	120	420	120	126	...	294	...
Hyderabad	162	546	162	347	...	199	...
Jerruck	111	622	111	542	...	80	...
Total ...	636	25	632	591	3	74	132

37. With regard to improvement of forests, no works beyond ordinary protection with that object have been undertaken in the Jacobadad Division owing to the forests in that Division being merely provisionally in the charge of the Department pending settlement and final notification.

But 335 acres of land were enclosed to protect the young spontaneous growth of Bábul and Kandi which had come up on it.

In the Sukkur Division 110 miles of compartment lines were cut and 22 miles of boundary paths round new lands cleared.

An area of 690 acres was treated for artificial re-production, of which 30 acres was regular plantation, the rest broadcast sowing.

In the Naushahro Division 140 acres were treated for artificial re-production. In the Hyderabad Division the work of cutting the forests up into blocks and compartments was all but completed by some 54 miles of additional compartment lines being cut.

38. Twenty-one compartments (3,359 acres) were closed for re-production, and 177 compartments (28,247 acres), which had been previously closed, were opened to grazing by horned cattle, the new growth having attained sufficient height to be safe from injury.

39. Three acres were added to the Divi-Divi plantation of 10 acres made in 1883-84; the plants grew well and looked very promising till late in the season when the plantation became infested with rats, and in spite of all efforts nearly the whole plantation was destroyed by them. They burrow under the roots of the plants and gnaw the roots deep underground. Out of 7,919 plants only 2,366 remained at the end of the year and there is not much hope of saving these. The planting of Divi-Divi will be abandoned and some other tree substituted—probably good mangoes. There were 155 Carob plants in this plantation; these are doing well, as the rats do not appear to attack Carob.

The Miani and bámbu plantations were not added to, but all the plants in them of former plantations are doing well except Pithecolobium Saman.

A quantity of seed of the Prosopis Glandulosa, from plants reared in the bámbu plantation, was sown broadcast in the Jamshoro, Miani, Matiari, and Mari forests, in land that had been flooded. The seed germinated freely, but the seedlings are not reported to be doing well.

Prosopis Glandulosa is the only exotic grown from seed sent by Government for experiments that promises to grow under natural conditions in Sind, but it is only fit for fodder plant.

40. In the Jerruck Division 79 miles of compartment lines were added during the year. One thousand eight hundred and twelve acres were treated for re-production; of this 16 acres are regular plantations and the rest land closed for re-production in compartments that have been worked for fuel supply.

Seed is broadcasted when necessary. Two thousand five hundred and ninety-six acres of previously closed land was re-opened to grazing, the new growth being strong enough to be safe from cattle.

41. The survey of forests on a large scale giving topographical features of the land and the description of tree-growth in all parts of the forests has been in progress.

42. The Hyderabad Division is all but completed and a little work has been done in the Jerruck Division. The work has not made as rapid progress as had been anticipated; this is due in a great measure to the impossibility of getting, for the salary given, thoroughly qualified surveyors, men who can sketch freely and put in a good many details by eye and so save time, which an inferior surveyor loses in taking off sets to every feature on the ground he wishes to plot. Only one surveyor has been employed instead of two, the other man having been transferred to the office of the Forest Settlement Officer in Sind, and no one could be got to take his place.

The maps turned out are excellent and give all the details required to guide an officer in preparing a working plan though the sketching is somewhat crude.

43. The boundary marks and paths are reported to have been maintained in proper order and trifling mistakes existing in the boundaries as discovered by the revision revenue survey have been corrected.

SECTION III—YIELD AND WORKING.

44. The table below gives a detail of the working of the Depôts in the Province :—

Name of Depôt.	Stock on hand on 1st April 1884.			Added during the year 1884-85.			Disposed of during the year 1884-85.			Balance on 31st March 1885.		
	Timber.	Posts and Rafters.	Fuel.	Timber.	Posts and Rafters.	Fuel.	Timber.	Posts and Rafters.	Fuel.	Timber.	Posts and Rafters.	Fuel.
	C. Feet.	No.	Maunds.	C. Feet.	No.	Maunds.	C. Feet.	No.	Maunds.	C. Feet.	No.	Maunds.
Shikárpur	100	31	..	55	11	..	164	42	..	..	..	..
Sukkur	5,105	18,221	151	617	1,450	2,970	3,470	8,117	2,407	2,252	11,554	714
Rohri	531	4,124	..	814	4,249	..	808	5,900	..	537	2,473	..
Lárkhána	1,907	3,146	..	40	..	4,800	973	559	4,600	974	2,587	200
Sehwan	..	4,990	..	171	12,172	346	171	13,999	346	..	3,163	..
Karáchi	..	..	9,836	..	501	8,486	..	..	11,500	..	501	6,822
Tatta	397	3,315	102	361	..	..	333	485	72	425	2,830	30
Keti Bandar	6,150	..	7,235	3,935	..	12,274	4,826	..	16,344	5,259	..	3,165
Kotri	..	..	8,847	..	..	109,909	..	..	104,514	..	..	14,242
Hyderabad	10,775	31,129	20,877	15,985	113,141	58,783	10,126	108,995	74,803	16,634	35,275	4,857

45. The following table shows the sales of timber and firewood at the several depôts :—

Name of Depôt.	Timber.		Posts and Rafters.		Fuel.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	C. Feet.	C. Feet.	No.	No.	Maunds.	Maunds.
Shikárpur... ...	992	164	12,445	42	...	...
Sukkur	2,993	3,470	12,017	8,117	10,684	2,407
Rohri	1,813	808	6,875	5,900	166	...
Lárkhána	436	973	901	559	1,725	4,600
Sehwan	78	171	10,866	13,999	268	346
Karáchi	...	...	...	...	26,600	11,500
Tatta	307	333	163	485	25	72
Keti Bandar ...	...	4,826	...	...	54,745	16,344
Kotri	...	...	200	...	16,858	104,514
Hyderabad ...	8,385	10,126	110,931	108,995	55,874	74,803

46. The falling off in timber sales in the depôt at Shikárpur is due to its having been found more profitable to dispose of the timber in the forests than to bring it to depôt. There is often a difficulty in getting timber to the Shikárpur Depôt at low rates as so much depends upon the state of the navigation of the canals during inundation season.

47. The large reduction in sales of firewood at Keti Bandar is due to the prohibition of sales of firewood there for export to Cutch Mándvi and Karáchi, the wood being sold in the forests instead. There was reason to suspect irregularities in the management of sales at the depôt on the part of the Depôt Munshi for which he was dismissed.

48. The large increase at the Kotri Depôts is misleading. The wood supplied to the steam ferry at Kotri has been passed through the depôt stock account, instead of being treated as a separate arrangement as heretofore.

49. The falling off in the sales at the Karáchi Depôt is owing to large importation of wood by local traders from waste lands, zamindárs' holdings and canal banks.

50. The increase in Hyderabad Depôt is due to the energy with which Mr. Showkirám, Sub-Assistant Conservator of Forests, worked the depôt while in charge of the Hyderabad Division. Only very dry dead wood was permitted to be brought to depôt which found a readier sale than the wood heretofore in stock.

51. This depôt has been worked on the share system for three years. It is satisfactory to find that the sales of the timber also have improved, as there

appeared danger at one time of the market being glutted by the share contractor for the season inundating it with timber, so as to obtain as large sales as possible during his term of the contract. The only practical objection that has been found to the share system is the accumulation of unsold timber belonging to successive share contractors about the disposal of which there is a difficulty. This timber will either have to be taken over by the Department at a valuation, or the new share contractor for the season will be obliged to take it over as a part of the share contract at cost price. If satisfactory arrangements cannot be made, the share system will have to be abandoned.

None of the other figures need be noticed as there are always fluctuations in demand for timber and firewood which will account for the variations noticeable in sales at depôts.

52. The following is a statement giving the timber disposed of during the year under report within forests to private purchasers and dealers:—

Division.	Timber.	Rough Logs.	Posts and Rafters, Pieces.
	C. Feet.	No.	No.
Sukkur	3,241	143	44,462
Jacobabad	91	738	60,556
Naushâhro	157	256	20,621
Jerruck	2,321	352	13,485
Hyderabad	343	578	5,905
Total ...	6,153	2,067	145,029

53. The Gun Carriage Factory in Bombay was supplied with 350 logs measuring 4,826 cubic feet. The work was done as heretofore by a contractor at the usual rates working under the supervision of the Divisional Forest Officer, Jerruck, in the forests of which all the timber was cut.

54. The following quantity of timber was supplied to the Railway and other Public Departments:—

Name of Department.	Bâbul Timber.	Bâbul Sleepers.
	C. Feet.	No.
Public Works Department	489	.....
Port Engineer, Karâchi	.....	600
Indus Valley State Railway	3,346	.....

55. The Indus Valley State Railway was supplied with 5,113,956 cubic feet of fuel. The wood was supplied as heretofore by contractors working under the orders of the Forest Department. The contracts expire on 31st September 1885 when either fresh contracts will have to be entered into or the work undertaken departmentally.

56. No difficulty is apprehended in keeping up the supply owing to material running short, as there is a sufficiency for a perpetual supply in the forests at the present rate of consumption, but the rates will need to be raised for Rádhan next year. There is any quantity of material in the forests in Central Sind, but none of the larger forests are near enough to this station to permit of wood being brought from them to Rádhan at the present rates, Rs. 32 per 1,000 cubic feet, and unless the railway authorities are willing to raise the rates somewhat there will be a difficulty, as it will hardly pay to continue to supply the railway with fuel if the present small royalty of Rs. 10 per 1,000 cubic feet has still further to be reduced. The small patches of jungle from which this station has been hitherto supplied are being rapidly cleared out of wood large enough in girth for the purpose and wood in future will have to be brought from the Kandiaro Range on the left bank of the river or from the Lárkhána Districts.

57. The railway authorities proposed to lay down a branch from Rádhan to Chana on the bank of the Indus where wood can be delivered very cheaply from the forests on the opposite bank, but the project had to be postponed owing to curtailing of expenditure.

58. Efforts were made to create an export trade in firewood to Bombay. As private enterprise appeared to be wanting I induced a contractor, before leaving Sind in April 1884, to agree to export 300,000 cubic feet a year by giving him a monopoly for three years. The contractor is to bear the cost of cutting and transport and to pay a royalty of Rs. 10 per 1,000 cubic feet which is the same as that paid by the railway. If he fails to remove the full quantity of 300,000 cubic feet yearly, he is still to pay the royalty on that quantity and may have his contract cancelled. The first year of the monopoly ends in November 1885. The contractor removed 120,000 cubic feet during the last cold season and expects to remove the remaining 180,000 after the monsoon of 1885.

59. It is very necessary to find a new source of revenue for the Sind forests as the long continuance of the railway as a customer is doubtful. By the transfer of the Sind Punjab and Delhi Line to the State the whole line in Sind will come under one management, and it is very doubtful if the railway authorities will continue to burn wood when they can transport coal from Karáchi the whole way over their own line. In actual cost the wood will always be able to compete with coal successfully, but the use of wood fuel gives endless trouble to the railway staff, and no excuse for condemning it will be lost.

60. Coal may be bought in Karáchi when there is a very small demand for it at Rs. 16 or even a trifle per ton less, but the ordinary price in Karáchi is Rs. 18 per ton, to which must be added the cost of haulage to changing stations up the line; the equivalent of a ton of coal in steam generating power in wood can be delivered at the changing stations along the line at Rs. 12 and is never likely to exceed Rs. 15. If there is any other expense incurred by the railway connected with the use of wood fuel, beyond removing it from the wood yards to the tenders, it must be due to want of management.

61. It is the policy of Government to let Departments manage their business with each other on strictly commercial principles, but there can be no question that for public interests it would be better for a State line to use fuel grown in State forests than to pay for imported coal.

62. The right to collect minor products, such as Bábul pods, Munj grass fibre and reeds, lac, &c., was farmed as usual and there is nothing of interest connected with them to be recorded.

63. I have not yet succeeded in inducing any firm in Karáchi to take up Bábul bark as an article of export to Europe, but a further consignment of bark has been sent as an experiment, the results of which are awaited.

64. The usual statement showing the quantity of fuel supplied to Companies and Departments during the last five years is given below:—

To whom supplied.	Maunds per Annum.				
	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.
Indus Steam Flotilla	4,32,812	1,59,860	59,712	8,031	...
Indus State Railway	9,87,718	7,11,194	10,60,635	16,48,780	10,54,156
Sind Railway	...	...	...	26,225	21,750
Commissioners' Steamer ...	3,750	9,225	7,024	9,271	9,288
Punjab Government Steamer...	6,025	6,292	1,940	5,400	2,700
Indus Ferry Steamers... ...	52,750	52,262	29,812	23,350	1,72,075
River Conservancy Department.	7,889	5,606	5,525	7,588	6,589
Public Works Department ...	946	71	2,676	31	224
Karáchi Harbour Works ...	37,172	42,772	94,169	73,989	68,391
Navab of Bhawalpur's Steamer	6,112	62	4,842	6,743	...
Ice Factories	...	2,490	5,342	7,075	1,500
Commissariat Department ...	40,206	31,147	26,441	22,122	30,581
Hyderabad Water-works ...	11,750	11,750	25,225	32,000	24,725
Assam Trading Company ...	...	4,238	12,125	...	...
Sukkur Municipality	...	...	1,100	2,675	3,850
Hyderabad Jail	...	...	...	364	2,959
Richardson Crudass & Co. ...	...	...	...	54	...
Government Farm, Hyderabad.	...	...	...	937	3,500
Total ...	15,87,130	10,36,969	13,36,568	18,74,635	14,02,288

There is a decrease of 4,72,347 maunds as compared with last year, but as the consumption on the State line alone is less by 5,94,624 maunds this is not so very unsatisfactory inasmuch as it shows improvement elsewhere.

65. A comparative statement of free grants is given below for the last three years :—

Year.	Value of free Grant.	Remarks.
	Rs. a. p.	
1882-83	1,258 11 5	
1883-84	421 0 0	
1884-85	320 4 0	

66. The following statement shows the quantity and value of timber taken gratis by the Irrigation Department during the last three years for works on the Begari Canal under the orders of Government, contained in Government Resolution No. 2432 of 7th May 1879 :—

Year.	Jhau Logs.	Jhau or Lai Rafters.	Jhau Brushwood.	Firewood.	Value.
	C. Feet.	No.	Bundles.	C. Feet.	Rs. a. p.
1882-83	158	1,258	...	95,562	1,125 7 2
1883-84	...	2,750	1,123	81,188	910 2 0
1884-85	...	...	...	162,653	1,732 9 4
Total ...	158	4,008	1,123	339,403	3.768 2 6

67. The total quantity of timber, firewood and charcoal disposed of during the year is as under :—

		C. Feet.
Bábul timber in scantlings		19,559
Bábul logs	No.	3,609
Bahan timber	cubit feet	5,342
Bahan logs	No....	307
Kandi and other timber, cubit feet	... ...	1,352
Do.	No.	1,268
Posts and rafters of all kinds, No.	... ...	283,079
Firewood	Mds.	19,86,503
Charcoal	Mds.	15,247

68. The following statement shows the value of farms for the collection of minor produce :—

	Rs.
Bábul pods	10,621
Lac	2,295
Munj reeds and fibre	625

69. The following is a statement showing the receipts from the permit pass or ghát system of collecting revenue from firewood and charcoal, &c., brought out of forests by pass-holders for the year 1883-84 and the year under report :—

Name of Division.	Name of Ghats.	Revenue realized.	
		1883-84.	1884-85.
		Rs. a. p.	Rs. a. p.
Sukkur	Ráhuja	11,554 0 0	10,201 0 0
	Gosarji or Jhali ...		
	Rohri		
Jacobabad	Sadhar	6,714 0 0	10,392 11 7
	Stewart		
	Khura...		
Naushahro	Lárkhána	1,612 11 0	2,277 11 0
Hyderabad	New Fuleli	1,014 0 0	904 0 0
	Old do.		
	Hájipur		
		20,894 11 0	23,775 6 7

70. The receipts for the year under report show an increase; this is probably due to the exhaustion of firewood outside forest limits. The revenue from this source would go on increasing with the progress of forest settlement in the province, but the permit pass system will have to be abandoned as soon as the Pass Rules become unworkable owing to the discovery by the people that wood cut in Málki Numbers needs no pass. Without the pass system it will be hopeless to attempt to protect the forests in the neighbourhood of large towns efficiently with the present establishment, and it will be better to withdraw the Ghát establishments and add them to the protective establishments of the forests in the vicinity of the present Ghâts, and introduce some other system of working the jungles to take the place of the present Ghát system. The loss of revenue will be very great. The Pass Rules protect not only the Government forests, but the waste land and Málki Numbers. When the Pass Rules cannot be enforced even if the forests are not extensively robbed, there will be a great loss of revenue owing to wood being cut gratis and without permission on waste and zamindári land which there are no efficient means of protecting.

SECTION IV—FINANCIAL RESULTS.

71. The following is a comparative statement of the receipts and expenditure during the year under report and the previous year:—

	Actuals for 1883-84.	Actuals for 1884-85.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Receipts...	6,42,494	4,76,493	...	1,66,001
Expenditure, A.—Conservancy and Works ...	4,08,653	2,77,004	...	1,31,649
Do. B.—Establishment	75,923	85,439	9,516	...
Total Expenditure ...	4,84,576	3,62,443	...	1,22,133
Net Revenue ...	1,57,918	1,14,050	...	43,868

72. The above shows a large falling off in income. It will be found, on reference to Form No. 53 attached, that the falling off in receipts under I. (*b*). Fire-wood alone somewhat exceeds the total decrease under all heads, and is due to the diminished consumption of fuel by the Indus Valley State Railway, which, owing to decrease of traffic on the line, fell to less than two-thirds of what it had been the previous year.

73. There is a proportionate decrease in expenditure under this head which needs no explanation.

Under A I. (*a*.)—Timber, there is an increase over the previous year, but the increase in expenditure is proportionately much larger; this is due to the fact that a larger quantity of timber than usual was sent to the Gun Carriage Factory in Bombay, and though the expense of cutting and transport was incurred and charged in the year under report, the whole sum due for the timber supplied had not been settled by the Gun Carriage Factory before the end of the year.

74. There is a falling off in receipts from timber removed from the forests by purchasers owing to smaller demands.

There is an increase in receipts under A II. (*d*.) Grazing, and other Minor Produce, due to the good grazing the forests afforded owing to a high inundation and the high prices fetched for the farms for collecting bábúl pods.

75. The falling off under V. (*c*.)—Other Sources, is due to a smaller area of land having been given out for cultivation within forest limits than the previous year.

76. With regard to expenditure on unproductive works, the only items that need notice are (1) A VII. *a*. and *b*., which show a decrease over last year owing to no roads or bridges having been made and a very small expenditure on buildings having been incurred, and (2) A VIII. *c*. Surveys and Working Plans, the increased expenditure on which is due to the energy with which the Divi-

sional Forest Officers, Hyderabad and Jerruck, have pushed on the work of cutting the compartment lines in the forests of their charges.

77. There is a considerable increase of expenditure under B.—Establishment, due to revision of superior staff, the creation of the Jacobabad Division, and the office establishment of the Forest Settlement Officer in Sind being debited against the Forest Department.

78. As the supply of locomotive fuel to the Indus Valley State Railway is the chief source of revenue to the Sind Forest Department, it may be intresting to give its financial results separately:—

Quantity of fuel supplied ...	...	5,180,956 cubic feet.
	or	37,007 tons.
Receipts from the same ...	Rs.	2,03,651
Expenditure on do. ...	,,	1,46,351
Net Revenue	Rs.	57,300

or a royalty of about Rs. 5½ per 100 maunds.

79. The equivalent in coal in steam-generating power of 37,007 tons of wood would be 18,503½ tons, which, delivered at the changing stations in the same way as wood, would cost probably some four lákhs of rupees, so that the use of wood fuel on the Indus Valley State Railway has saved the State rather more than two and a half lákh of rupees, as only the working charges of delivering the wood amounting to Rs. 1,46,351 should be taken into account as the cost to the State of the wood fuel supplied.

CHAPTER III.

PROTECTED UNRESERVED AND DISTRICT FORESTS.

80. There are no Protected or District Forests in the Sind Circle. There is a large area of waste land covered with scrub jungle which may be described as unreserved forest. The greater part of this land is in course of being taken up for Reserved Forests; the tracts not so taken up will remain for the extension of cultivation.

CHAPTER IV.

GENERAL.

81. From 1st April 1884 the accounts of the Department have been kept in accordance with the rules and forms laid down in the Forest Department Code. As it had been the practice for the Sind Forest Department to keep its own accounts up to 1881, it was hoped that the existing office establishments would have been sufficient to carry on the work under the new system, but this hope has not been realized.

82. The essential difference between the system that came into force in 1881 and the new one is that, under the former the Divisional Forest Officers sent their contingent bills, pay abstracts, &c., to the Treasury Officers through the Conservator's office, which was able to check and correct the bills before sending them on, thus very materially reducing the number of objections the Accountant General could raise; under the new system the Divisional Forest Officers send in their accounts direct to the Accountant General merely sending a copy of their classified abstracts to the Conservators and their travelling allowance bills for countersignature.

83. The clerical work of the Divisional Forest Officers' offices has been very greatly increased, and the revision of the office establishments that has been asked for is very necessary.

84. The work has been carried on fairly well, considering the clerks are over-worked; but the objection statements from the Accountant General are of formidable proportions, and many mistakes have been made in keeping the prescribed forms through which much inconvenience was caused in the preparation of the statements required to accompany the annual report.

85. As I was absent nearly the whole of the tour season, I am not in a position to speak of the general state of preservation and improvement of the forests from personal knowledge.

86. I assumed charge of the Conservator's office in the middle of February, and after getting ready for the districts started on tour towards the end of that month, but I had not proceeded very far, when I was laid up with an obstinate attack of remittent fever, from which I was still *hors de combat* when the year ended. I was therefore only able to inspect a part of the Hyderabad Division. The forests I inspected were in splendid condition, and the compartments that have been cleared for supply of locomotive fuel, I found in a highly satisfactory condition as regards reproduction, but the grass was too high to be safe, and the compartments will be opened to grazing by horned cattle during the next hot season.

87. I was able to satisfy myself of the truth of the belief I hold that Kandi will coppice vigorously independently of surface irrigation.

88. Before going on furlough I had all the Kandi-covered tracts in the Mahomed Khán's forests, which are above the reach of annual inundation water, cleared and closed for reproduction.

Part of the area was merely fenced in, the rest was given out for one year for cultivation so as to bring water on the land and loosen the soil. This land was closed after the crops had been removed.

The Kandi has coppiced well in the unirrigated part and though in some places in the land that was given out for cultivation, and irrigated for a season, the coppice shoots are stronger, yet over the whole area there is not very much difference.

89. Surface irrigation would of course be necessary for filling up blanks as Kandi seed would hardly germinate under the ordinary rainfall in this province, and even if it did, very few of the seedlings would survive till the next fall of rain.

The forests that need surface irrigation most are those that have been cut off from the annual inundations by bunds put up by the Irrigation Department.

If a certain number of sluices are not left in the bunds for watering the forests, the land is sure to be ruined in time by saline efflorescence which comes up by percolation due to pressure of water outside the bund. But I believe the Irrigation Department proposes to build the necessary sluices.

90. Having had so little to do with the working of the Department during the year under report, it would be out of place for me to make remarks touching the manner the Divisional Forest Officers have individually administered their charges, but as they are all zealous and intelligent officers, it may be taken for granted that they have carried on their duties with credit and efficiency.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests,
Sind Circle.

Conservator's Office, Hyderabad,
21st September 1885.

FORM No. 49.

FOREST DEPARTMENT, SIND CIRCLE.

Area of Reserved Forests, 1884-85.

Division.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.		Added during the year.	Excluded or transferred to other Heads.	Area on 1st March 1885.		No. and Date of Notification of Addition or Transfer.	REMARKS
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Sukkur ...	Shikárpur ...	Ráoti	8,129	13	...	...	8,129	13		
		Jamshero	6,559	10	...	...	6,559	10		
		Daresh	1,725	3	...	...	1,725	3		
		U'báúro	3,150	5	..	...	3,150	5		
		Mirpúr	6,600	10	...	...	6,600	10		
		Bahab	8,985	14	...	...	8,985	14		
		Búdh	1,217	2	...	...	1,217	2		
		Sadhúja	13,699	21	...	...	13,699	21		
		Shahpur	11,215	18	...	...	11,215	18		
		Pânwari	587	1	...	...	587	1		
		Hussenbeli ...	3,407	5	...	...	3,407	5		
		Azizpur	880	1	...	...	880	1		
		Ding	1,543	2	...	...	1,543	2		
		Ghotki	4,200	7	...	...	4,200	7		
		Syedpur	7,647	12	...	...	7,647	12		
		Rohri	8,302	13	...	...	8,302	13		
		Kote Sháhu ...	6,099	10	..	...	6,099	10		
		Abád	5,604	9	...	...	5,604	9		
		Kadurdini Bindi...	2,306	4	...	...	2,306	4		
		Khiábindi... ...	3,118	5	...	...	3,118	5		
		Shah	13,433	21	...	...	13,433	21		
		Bindi Dhareja ...	6,954	11	...	...	6,954	11		
		Kadrapur... ...	2,485	4	...	...	2,485	4		
		Bagirgi	13,920	22	...	...	13,920	22		
		Andaldal	12,193	19	...	...	12,193	19		
		Total ...	1,53,957	242	...	...	1,53,957	242		
Nausháhro.	Shikárpur ...	Dosú	4,033	6	...	...	4,033	6		
		Keti U'bhúro ...	5,575	9	...	...	5,575	9		
		Kanuri	3,630	6	...	...	3,630	6		
		Kasimshah ...	2,107	3	...	...	2,107	3		
		Nari	1,522	2	...	...	1,522	2		
		Dangar	...	...	3,685	...	3,685	6	7725 of 29th September 1884.	
		Magsi	1,483	2	...	...	1,483	2		
	Hyderabad ...	Bhâur	10,539	16	...	...	10,539	16		
		Mohbat dero ...	8,045	13	...	...	8,045	13		
		Samtia	3,390	5	...	...	3,390	5		
		Kamaldero ...	1,365	2	...	...	1,365	2		
		Bhorti	10,790	17	...	...	10,790	17		
		Dalipota	867	1	...	...	867	1		
		Khairodero ...	13,073	20	...	...	13,073	20		
		Lalia	4,192	7	...	...	4,192	7		
	Karáchi ...	Karampur... ...	1,787	3	1,137	...	2,924	5	7660 of 26th September 1884.	
		Total, Nausháhro Division ...	72,398	112	4,822	...	77,220	120		
yderabad	Hyderabad ...	Lakhát	6,380	10	...	...	6,380	10		
		Nasri	1,556	2	...	...	1,556	2		
		Mad	2,642	4	...	...	2,642	4		
		Mahrabpur ...	3,338	5	...	...	3,338	5		
		Mari	14,753	23	...	...	14,753	23		
		Pai...	5,130	8	...	...	5,130	8		
		Keti Jurio... ...	2,125	3	...	...	2,125	3		
		Rano	1,627	3	...	...	1,627	3		
		Nurketi	3,418	5	...	...	3,418	5		
		Kacha Nurketi ...	3,691	6	...	...	3,691	6		
		Bhanote	841	1	...	...	841	1		
		Khanote	8,666	14	...	...	8,666	14		
		Khebrani	760	1	...	...	760	1		
		Sekhat	2,067	3	...	...	2,067	3		

FORM No. 49—*continued.*

Division.	Civil District or Territory.	Name of Forest.	Area on 1st April 1884.		Added during the year.	Excluded or transferred to other Heads.	Area on 1st March 1885.		No. and Date of Notification of Addition or Transfer.	Remarks.
			Acres.	Equivalent in Square Miles.		Acres.	Acres.	Equivalent in Square Miles.		
Hyderabad—contd.	Hyderabad—continued.	Jakhri	1,926	3	...	...	1,926	3		
		Matiari	5,354	8	...	...	5,354	8		
		Ghali	3,041	5	...	...	3,041	5		
		Miani	4,917	8	...	...	4,917	8		
		Kátri	756	1	...	...	756	1		
		Gundi	2,150	3	...	...	2,150	3		
		Mahomed Khán ...	181	...	...	...	181	...		
		Jam Sharo... ...	292	...	...	...	292	...		
		Shahmakai ...	411	1	...	...	411	1		
		Keti Mahrani ...	5,523	9	...	...	5,523	9		
	Karáchi	Butto	7,748	12	...	...	7,748	12		
		Mánjhand	1,539	2	...	...	1,539	2		
		Unarpur	10,397	16	...	...	10,397	16		
		Ghagh	1,296	2	...	...	1,296	2		
		Karokho	1,701	3	...	...	1,701	3		
		Total, Hyderabad Division ...	1,04,226	161	...	...	1,04,226	161		
Jerruck...	Karáchi ...	Viran	9,142	14	...	...	9,142	14		
		Sonda	2,114	3	...	...	2,114	3		
		Hilaya	2,898	5	...	...	2,898	5		
		Lalang	5,151	8	...	...	5,151	8		
		Shah Lanko ...	1,690	3	...	...	1,690	3		
		Garko	4,079	6	...	...	4,079	6		
		Penah	6,169	10	...	...	6,169	10		
		Susati	39	...	...	...	39	...		
		Khirsar	1,380	2	...	...	1,380	2		
		Huderani	5,511	9	...	...	5,511	9		
		Surjani	1,387	2	...	...	1,387	2		
		Ganj	2,228	3	...	...	2,228	3		
		Hazari	2,483	4	...	...	2,483	4		
		Makbulo	496	1	...	...	496	1		
		Laikpur	7,406	12	...	...	7,406	12		
		Khadi	4,500	7	...	...	4,500	7		
		Phatah	258	...	...	...	258	...		
		Mulchand	5,454	9	...	...	5,454	9		
		Malir	24	...	...	...	24	...		
	Hyderabad...	Husri	420	1	...	...	420	1		
		Khatro	416	1	...	...	416	1		
		Khathar	2,935	5	...	...	2,935	5		
		Katiar	952	1	...	...	952	1		
		Kirdahi	290	...	...	...	290	...		
		Tikhur	1,709	3	...	...	1,709	3		
		Khokhar	1,556	2	...	...	1,556	2		
		Budka Takar ...	975	2	...	...	975	2		
		Total, Jerruck Division ...	71,662	113	...	...	71,662	113		

Dated Hyderabad, 21st September 1885.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

STATEMENT A.

Summary of Revenue and Expenditure of the different Divisions during the year 1884-85.

Budget Heads.	Direction.	Jacobabad.	Jerruck.	Hyderabad.	Naushahro.	Sukkur.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.							
I.—Timber and other Produce removed from the Forest by Government Agency—							
a Timber	.....	239 0 0	13,318 5 5	21,230 11 7	6,612 8 11	5,283 0 8	46,683 10 7
b Firewood and charcoal	.....	10,745 12 7	71,464 0 0	56,868 13 3	57,470 11 7	1,15,243 13 2	3,11,793 2 7
c Bámbus	.....	.....	.....	.....	.....	.....	.....
d Sandalwood	.....	.....	.....	.....	.....	.....	.....
e Grass and other minor produce ...	.....	12 7 6	68 6 0	225 10 9	0 8 0	133 3 11	440 4 2
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—							
a Timber	.....	2,053 12 6	572 1 9	480 2 7	435 11 2	1,497 11 3	5,039 7 3
b Firewood	.....	9,386 4 10	1,444 2 0	2,011 2 5	2,554 9 6	11,119 15 9	26,466 2 6
c Bámbus	.....	.....	.....	.....	.....	.....	.....
d Grazing and fodder grass	.....	.....	9,824 14 0	12,289 7 0	6,632 1 0	13,464 10 9	42,211 0 9
e Other minor produce...	.....	6 0 0	2,638 10 2	9,032 11 8	1,952 3 6	984 9 3	14,614 2 7
III.—Confiscated, Drift and Waif Wood ...	.....	45 11 0	.....	.....	2 9 0	1 8 0	49 12 0
IV.—Revenue from Forests not managed by Government—							
a Duty on Foreign Timber and other forest produce	.....	.....	.....	.....	.....	.....	.....
b Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—Miscellaneous—							
a Fines and forfeitures	.....	.....	.....	.....	10 1 10	.....	10 1 10
b Refunds	5 6 2	25 0 0	149 15 11	20 8 0	14 4 0	.....	215 2 1
c Other sources	.....	10 0 0	3,397 2 1	3,613 9 10	9,529 4 5	12,419 13 0	28,969 13 4
Total Revenue ...	5 6 2	22,474 0 5	1,02,877 9 4	1,05,772 13 1	85,214 8 11	1,60,148 5 9	4,76,492 11 8
EXPENDITURE.							
A.—Conservancy and Works.							
I.—Timber and other Produce removed from the Forests by Government Agency—							
a Timber	.....	.....	1,1417 14 1	10,582 10 4	2,699 11 10	3,495 9 3	28,195 13 6
b Firewood and charcoal	.....	7,303 4 8	46,020 8 11	37,698 15 0	43,297 14 6	84,606 5 9	2,18,927 0 10
c Bámbus	.....	.....	.....	.....	.....	.....	.....
d Sandalwood	.....	.....	.....	.....	.....	.....	.....
e Grass and other minor produce ...	.....	58 13 0	71 4 9	616 7 8	36 10 4	14 8 6	797 12 3

Budget Heads.	Direction.	Jacobabad.	Jerruck.	Hyderabad.	Naushahro.	Sukkur.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—*continued.*							
A.—Conservancy and Works—*continued.*							
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers ...	.....	892 15 6	7 12 4	624 7 6	441 0 9	960 1 0	2,926 5 1
III.—Confiscated, Drift and Waif Wood ...	.....	.....	.....	.....	.....	0 6 0	0 6 0
IV.—Revenue from Forests not managed by Government—							
a Duty on foreign timber and other forest produce	.....	.....	.....	.....	.....	.....	.....
b Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—Rent of Leased Forests and Payment to Shareholders in Forests managed by Government	.....	.....	.....	.....	.....	.....	.....
VI.—Livestock, Stores, Tools, and Plants—							
a Purchase of cattle	.....	.....	.....	80 0 0	.....	.....	80 0 0
b Feed and keep of cattle	.....	.....	36 11 1	212 3 4	.....	573 1 5	821 15 10
c Stores, tools, and plant	4 14 6	142 9 6	136 14 9	532 7 5	47 14 0	173 0 0	1,037 12 2
VII.—Communications and Buildings—							
a Roads and bridges	.....	.....	1 10 0	.....	.....	.....	1 10 0
b Buildings	.....	23 0 0	37 15 4	578 5 4	70 0 0	50 8 0	759 12 8
c Other works...	.....	.....	.....	.....	.....	.....	.. ...
VIII.—Demarcation, Improvement and Extension of Forests—							
a Demarcation	.....	968 9 0	43 7 6	.....	381 10 0	780 5 9	2,174 0 3
b Compensation for land and rights ...	.....	.....	.....	68 12 0	.....	.....	68 12 0
c Surveys and working plans ...	.....	.....	1,526 13 2	1,485 10 8	1,515 0 3	1,786 12 0	6,314 4 1
d Plantations	.....	.....	854 12 10	1,620 14 9	.....	1,891 11 8	4,367 7 3
e Protection from fire	.....	.....	.....	.....	.....	299 0 1	299 0 1
f Other Works	.....	3,394 4 8	1,314 11 9	2,414 1 3	2,248 6 5	777 1 3	10,148 9 4
IX.—Miscellaneous—							
a Refunds	.....	.....	.....	.....	.....	.....	.....
b Law charges	.....	.....	.....	.....	.....	.....	.....
c Other charges	.....	0 11 0	8 1 6	74 12 3	.....	.....	83 8 9
Total, A—Conservancy and Works ...	4 14 6	12,784 3 4	61,478 10 0	56,589 11 6	5 1	95,408 6 8	2,77,004 2 1

B.—Establishments.							
I.—Salaries—							
a Conservators	11,203 11 5	.....	.....	464 4 7	.....	.....	11,668 0 0
b Superior officers	962 4 1	1,668 8 10	10,438 14 9	2,605 9 0	2,288 11 5	7,711 4 9	25,675 4 10
c Subordinate Forest and Depôt Establishments	.....	180 2 1	3,910 1 8	7,024 2 7	2,934 4 5	5,636 6 10	19,685 1 7
d Office Establishments	2,578 5 4	1,014 13 4	1,151 0 0	1,255 10 8	1,152 0 0	1,261 8 0	8,413 5 4
e Deputation and special allowances ...	.....	.....	.....	.....	.....	.....	.....
II.—Travelling Allowances—							
a Conservators	2,405 1 9	.....	.....	92 13 9	.....	.....	2,497 15 6
b Superior officers	157 0 0	836 5 8	1,800 0 0	844 9 11	720 0 0	1,877 9 3	6,235 8 10
c Subordinate Forest and Depôt Establishments	.....	360 0 0	400 9 9	611 12 9	401 4 8	621 5 0	2,395 0 2
d Office Establishments	1,535 11 2	356 14 0	536 15 1	565 5 7	633 4 9	419 3 5	4,047 6 0
III.—Contingencies—							
a Stationery	6 8 3	98 14 6	100 3 0	104 12 6	95 15 6	133 1 1	539 6 10
b Carriage of tents and records ...	235 10 0	47 15 4	91 12 2	80 8 7	72 10 0	87 3 9	615 11 10
c Rents, rates and taxes	330 0 0	246 7 3	240 0 0	240 0 0	222 9 3	361 0 0	1,640 0 6
d Pay of Police Guards	.....	.....	.....	.....	.....	.....	.....
e Official Postage	95 6 6	141 4 0	177 13 0	94 10 6	176 3 0	200 8 0	885 13 0
f Sundries	194 13 0	{ 62 10 6 / 4 13 0 }	157 4 8	386 5 0	191 8 6	142 13 1	1,140 3 9
Total, B.—Establishments ...	19,704 7 6	5,018 12 6	19,004 10 1	14,370 9 5	8,888 7 6	18,451 15 2	85,438 14 2
Grand Total of Expenditure ...	19,709 6 0	17,802 15 10	80,483 4 1	70,960 4 11	59,626 11 7	1,13,860 5 10	3,62,443 0 3

Bombay,
Dated 6th August 1885.

T. W. RAWLINS,
Accountant General.

FORM No. 54.

FOREST DEPARTMENT, SIND CIRCLE.

Account Current for the year 1884-85.

Dr. *Cr.*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Cash Balance—			By 3 Refunds and Drawbacks—		
,, VI. Provincial Rates—			Refunds, Divided Heads—		
Rates and Cesses on lands (Local)—			Forest	.....	1,771 1 11
District Road Cess	3 2 0		,, 13 Forest	.....	3,62,443 0 3
Educational Cess	1 9 0		,, 19 Law and Justice—		
		4 11 0	Jails—		
,, IX. Forest	.....	4,76,492 11 8	District Jails—		
,, XV. Law and Justice—			Office expenses and Miscellaneous	.....	538 0 6
Jails, Jail Manufactures	.....	0 4 0	,, 21 Marine—		
,, XX. Scientific and other Minor Departments—			Salaries and allowances of officers, &c.—		
Botanical and other public gardens (Local)	.....	180 0 0	Steamer "Jehlum" and Flat "Mooltan" Contingencies... ...	.....	1,671 12 0
,, XXII. Receipts in aid of Superannuation Military Fund ...	.....	191 0 0	,, 26 Scientific and other Minor Departments—		
,, Advances Repayable—			Botanical and other Public gardens	533 4 0	
Advances recoverable from forest	.....	61,905 6 2	Do. do. (Local)	180 0 0	713 4 0
,, Cheques and Bills—			,, 48 Civil Buildings, Roads, &c.—		
Forest Cheques	.....	3,71,652 11 2	Public Works in charge of Civil Officers (Local)—		
Forest Remittances—			Ferry Establishment and Contingencies	.....	3,483 0 0
Inter-divisional Transfers	600 0 0		Excluded Local Funds—		
Inter-departmental Transfers	108 2 6		Port and Marine Funds—		
		708 2 6	Indus Conservancy Fund	.....	231 12 0
,, Account between Bombay and Military, Bombay—IV. Items adjustable by Military	.....	180 0 0	,, Advances Repayable—		
,, Account between Bombay and Public Works Department (Ordinary Branches)—			Advances recoverable from forest	.....	65,688 1 8
Bombay—IV. Items adjustable by Public Works Department.	.....	379 8 11	,, Cheques and Bills—		
			Forest Cheques...	.....	2,263 4 7
			,, Forest Remittances—		
			Remittances to Treasuries	1,94,373 5 7	
			Inter-divisional Transfers	600 0 0	1,94,973 5 7
			,, Account between Bombay and Military, Bombay—IV. Items adjustable by Military	.....	18,920 15 8
			,, Account between Bombay, Public Works Department (Ordinary Branches)—		
			Bombay—IV. Items adjustable by Public Works Department ...	.....	21,993 13 10
			,, Account between Bombay aand Public Works Department (Railway Branches)—		
			Indus Valley State Railway—		
			,, IV. Items adjustable by Public Works Department	.....	2,35,332 9 7
			,, Account between India and Bombay—III. Items adjustable by India ..	.....	16 12 0
			Cash Balance	.....	1,653 9 10
Total ..	.....	9,11,694 7 5	Total ...	.....	9,11,694 7 5

Bombay Accountant General's Office, 29th August 1885.

T. W. RAWLINS,
Accountant General.

20

FORM No. 55.

FOREST DEPARTMENT, SIND CIRCLE.

Outstandings and Liabilities on account of Contractors and Disbursers of the Sind Circle for 1884-85.

Division.		Department Debtor.			Department Creditor.			Balance due		Remarks.
		At commencement of Year.	Recoveries in Cash and Value of Supplies and Work done during Year.	At close of Year (Total).	At commencement of Year.	Payments made during Year.	At close of Year (Total).	To Department (outstanding).	By Department (Liabilities).	
			Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.		
Hyderabad ..	Contractors.	..	13,650 0 0	13,650 0 0	..	13,650 0 0	13,650 0 0	....	..	
,, ..	Disbursers .	..	17,993 4 8	17,993 4 8	..	19,538 12 2	19,538 12 2	1,545 7 6	..	
Jerruck ..	Contractors.	..	13,268 10 5	13,268 10 5	..	14,252 3 11	14,252 3 11	983 9 6	..	
,, ..	Disbursers .	..	6,878 1 2	6,878 1 2	..	7,781 11 3	7,781 11 3	903 10 1	..	
Sukkur ..	,, ..	..	5,976 14 2	5,976 14 2	..	6,160 0 0	6,160 0 0	183 1 10	..	
Jacobabad ..	,, ..	..	216 12 10	216 12 10	..	312 11 0	312 11 0	95 14 2	..	
Naushahro ..	,, ..	..	3,921 10 11	3,921 10 11	..	3,992 11 4	3,992 11 4	71 0 5	..	
	Total ..	..	61,905 6 2	61,905 6 2	..	65,688 1 8	65,688 1 8	3,782 11 6	..	

T. W. RAWLINS,
Accountant General.

Accountant General's Office, Bombay,
29th August 1885.

FORM No. 57.

FOREST DEPARTMENT, SIND CIRCLE.

Financial Results of the year 1884-85.

Division.	Timber and other Produce removed from the Forests by Government Agency.		Other Revenue.		Formation, Production and Improvement of Forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Sukkur ...	1,20,660	99,944	39,489	7,791	12,750	1,60,149	1,20,485	
Naushahro ...	64,084	50,226	21,132	4,589	8,337	85,216	63,152	
Hyderabad ...	78,325	56,734	27,449	5,175	13,426	1,05,774	75,335	
Jerruck ...	84,851	68,534	18,028	6,192	10,012	1,02,879	84,738	
Jacobabad ...	10,997	9,424	11,478	2,885	6,424	22,475	18,733	
Total ...	3,58,917	2,84,862	1,17,576	26,632	50,949	4,76,493	3,62,443	

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

Dated Hyderabad, the 2nd September 1885.

B 859—6 SIND

FORM No. 59.

Forest Department, Sind Circle.

Outturn of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Produce cut and collected.				Remarks.
	How obtained.	Description.	Number or Quantity.	Cubic feet.	
Sukkur	Clearance and erosion fellings.	Bahan posts ...	1,059	...	
		Bábul „ ...	535	...	
		Bahan rafters ...	8,785	...	
		Bábul cart axles ...	1,755	...	
		Jhau rafters ...	1,100	...	
		Bábul logs... ...	77	340	
		Bahan „	270	2,008	
		Kandi „	33	39	
		Tali „	47	217	
		Total Timber ...	13,661	2,604	
		Firewood ... Mds.	1,53,321	...	
		Do. ... C. ft.	...	2,788,005	
Naushahro ...	Thinnings and clearance.	Bahan logs ...	46	198	
		Bábul „ ...	130	449	
		Kandi „ ...	69	...	
		Bahan rafters ...	59,909	...	
		Do. posts ...	1,465	...	
		Jhau rafters ...	3,205	...	
		Do. brushwood and Kanh bundles ...	16	...	
		Total Timber ...	64,840	647	
		Firewood ... Mds.	12,300	...	
		Charcoal ... Mds.	812	...	
		Loco. fuel ... C. ft.	...	1,467,224	
Hyderabad ...	Selection fellings.	Bábul logs ...	1,234	14,649	
	.....	Do. ...	665	...	
	Erosion ...	Do. ...	40	...	
	Selection fellings.	Bábul sleepers ...	700	...	
	.....	Bahan dasas ...	443	...	
	Erosion ...	Bábul posts ...	300	...	
	Selections ...	Bahan „ ...	3,521	...	
	.....	Bahan rafters ...	60,196	...	
	.....	Jhau „ ...	2,833	...	
	.....	Bábul planks ...	2,514	...	
	.....	Do. slabs ...	2,096	...	
		Total Timber ...	74,542	14,649	
	Thinnings and clearance.	Firewood ... Mds.	1,53,951	...	
		Loco. fuel ... C. ft.	...	650,477	
		Charcoal ... Mds.	2,390	...	
		Tooth brushes...No.	89,900	..	
		Reed ...Bundles.	122	...	

FORM No. 59—*continued.*

Division.	Produce cut and collected.				Remarks.
	How obtained.	Description.	Number or Quantity.	Cubic Feet.	
Jerruck ...	Selection fellings.	Bábul logs ...	301	2,641	
	.....	Do. ...	60	...	
	.....	Do. ...	156	...	
	.....	Do. ...	27	103	
	.....	Bábul pieces ...	3,151	...	
	Thinnings ...	Bábul logs ...	45	119	
	Erosion fellings.	Do. ...	31	166	
	Do. ...	Do. ...	34	...	
	Selection ...	Bábul posts ...	30	...	
	Thinnings ...	Jhau „ ...	501	...	
	Do. ...	Do. rafters ...	700	...	
		Total Timber ...	5,036	3,029	
	Thinnings ...	Firewood ...Mds.	97,739	...	
	.....	Loco. fuel... C. feet.	...	5,51,028	
	Fellings from dry and fallen trees..	Firewood ...Mds.	900	...	
	Erosion fellings...	Do. ...	5,725	..	
	Dry and fallen trees.	Charcoal ...	6,977	...	
Jacobabad ...	Confiscation ...	Asri logs ...	12	56	
	.....	Kandi „ ...	1	1	
	Drift, &c. ...	Deodár „. ...	1	74	
		Total Timber ...	14	131	
	Clearance ...	Loco. fuel... C. feet.	...	2,15,305	
		Bábul seed ...Mds.	2	...	

FORM No. 59.

Forest Department, Sind Circle.

Outturn of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Produce cut and collected.				Remarks.
	How obtained.	Description.	Number or Quantity.	Cubic Feet.	
		Abstract of the Circle.			
		Bábul logs ...	1,845	18,467	
		Do. ...	955	...	
		Bábul pieces ...	3,151	...	
		Báhan logs ...	316	2,206	
		Kandi „ ...	34	40	
		Do. ...	69	...	
		Tali logs... ...	47	217	
		Asri „ ...	12	56	
		Deodár „ ...	1	74	
		Planks	2,514	...	
		Sleepers... ...	700	...	
		Bahan dasas ...	443	...	
		Bábul posts ...	865	...	
		Bahan „ ...	6,045	...	
		Do. rafters ...	128,890	...	
		Jhau posts ...	3,334	...	
		Do. rafters ...	5,005	...	
		Do. brushwood ...	16	...	
		Bábul cart axles ...	1,755	...	
		Do. slabs ...	2,096	...	
		Total Timber ...	158,093	21,060	
		Firewood ...Mds.	4,23,936	...	
		Charcoal ... „	10,179	...	
		Loco. fuel ...C. ft.	...	56,72,039	
		Tooth brushes ...	89,900	...	
		Reed bundles ...	122	...	
		Bábul seed ...	2	Mds.	

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests,
Sind Circle

FORM No. 60.

Forest Department, Sind Circle.

Timber and other Produce received from Forest in Sale Depôts during the year 1884-85.

Division.	Depôt.	Produce received.			Remarks.
		Description.	Number or Quantity.	Cubic Feet.	
Sukkur ...	Rohri ...	Bahan logs... ...	79	814	
		Do. posts ...	684	...	
		Do. rafters ...	3,066	...	
		Bábul cart axles ...	499	...	
	Sukkur ...	Bábul logs... ...	63	274	
		Bahan „ ...	23	172	
		Tali „ ...	41	171	
		Bábul posts ...	602	...	
		Bábul cart axles ...	848	...	
		Firewood ...Mds.	2,970	...	
	Sukkur Dák ...	Firewood ...	153,150	...	
	Do. Main and Work Shops...	Loco. fuel ...	...	1,376,270	
	Railway Fuel Stations.				
	Ruk and Naodero	Loco. fuel ...	...	74,510	
	Reti ...	.....	...	199,725	
	Khairpur ..	.....	..	84,925	
	Mirpur ...	.....	...	66,125	
	Sarhad ...	.....	...	96,910	
	Ghotki ...	.....	...	64,540	
	Mahesar ...	.....	...	100,230	
	Panoakil ...	.....	...	35,000	
	Sangi ...	.....	...	200,000	
	Rohri and Pano...	.....	...	434,305	
Jacobabad ...	Shikárpur ...	Bahan logs ...	9	55	This timber was supplied by Sukkur Division.
		Do. posts ...	11	...	
	Railway Fuel Stations.				
	Humaon ...	Loco. fuel ...	...	82,500	
	Jacobabad ...	Do. ...	...	82,805	
Naushahro ...	Lárkhána ...	Bahan logs ...	5	40	
		Firewood ... Mds.	4,800	...	
	Sehwan ...	Bahan logs ...	20	171	
		Bábul „ ...	11	...	
		Bahan rafters ...	10,575	...	
		Jhau „ ...	200	...	
		Bahan posts ...	1,397	...	
		Firewood ... Mds.	346	...	
	Dák Jamali ...	Steamer fuel ...	1,900	...	
	Do. Bharodero...	.....	300	...	
	Do. Sita ...	.....	1,625	...	
	Do. Rukan ...	.....	1,829	...	
	Do. Khairodero...	.....	1,125	...	
	Sehwan ...	.....	375	...	
	Laki Station ...	Loco. fuel ...	...	116,106	
	Dádu and Phulji..	.....	...	94,520	
	Badra ...	.....	...	35,150	
	Radhan ...	.....	...	1,056,300	
	Puranodero ...	.....	...	52,075	
	Sita ...	.....	...	25,025	
	Naodero ...	.....	...	27,625	
	Bubak ...	.....	...	39,690	
	Bhan ...	.....	...	17,500	
	Sehwan ...	.....	...	3,233	

FORM No. 60—*continued.*

Division.	Depôt.	Produce received. Description.	Number or Quantity.	Cubic Feet.	Remarks.
Hyderabad ...	Hyderabad ...	Bábul logs ...	1,225	14,661	
		Do. ...	*82	1,324	*This timber was supplied by Jerruck Division.
		Do. ...	125	...	
		Bahan dasas ...	443	...	
		Bábul posts ...	300	...	
		Bahan ,, ...	2,574	...	
		Bahan rafters ...	57,496	...	
		Do. ...	49,495	...	Do. do. by Naushahro Division.
		Jhau rafters ...	2,833	...	
		Firewood Mds.	44,468	...	
		Do. ...	12,927	...	Do. do. by Jerruck Division.
		Charcoal ...	563	...	
		Do. ...	1,309	...	Do. do. do.
		Reed bundles ...	122	...	
		Tooth brushes ...	89,900	...	
	Kotri ...	Bábul logs ...	540	...	
		do. ...	183	...	Do. do. do.
		Sleepers ...	700	...	
		Firewood Mds.	107,831	...	
		Do. ...	2,078	...	Do. do. do.
		Charcoal ...	1,702	...	
	Kotri Railway Station.	Loco. fuel ...	...	201,525	
		Do. ...	...	454,950	Do. do. do.
	Amri ...	Do. Mds.	350	421,326	
	Laki ...	Do. ...	...	27,626	
	Unarpur ...	Firewood ... Mds.	375	...	
	Mánjhand ...	Do. ...	2,688	...	
Jerruck ...	Tatta ...	Bábul logs ...	33	361	
		Charcoal ... Mds.	297	...	
	Karáchi ..	Jhau posts ...	501	...	
		Firewood ... Mds.	8,486	...	
	Keti Bandar ...	Do. ...	12,274	...	
		Bábul logs ...	138	3,935	
		ABSTRACT OF THE CIRCLE.			
		Bábul logs ...	1,543	20,555	
		Do. ...	859	...	
		Bahan logs ...	136	1,252	
		Tali ,, ...	41	171	
		Bábul sleepers ...	700	...	
		Do. posts ...	902	...	
		Do. cart axles ...	1,347	...	
		Bahan posts ...	4,666	...	
		Do. rafters ...	120,632	...	
		Jhau posts ...	501	...	
		Do. rafters ...	3,033	...	
		Bahan dasas ...	443	...	
		Total Timber ...	134,803	21,978	
		Firewood ... Mds.	359,897	...	
		Loco. fuel ... C. ft.	...	5,520,496	
		Charcoal ... Mds.	3,871	...	
		Reed bundles ...	122	...	
		Tooth brushes ...No.	89,900	...	

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 61.

Forest Department, Sind Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1884-85.

Division.	Depôt or Locality.	Produce Sold.			Remarks.
		Description.	Number or Quantity.	Cubic Feet.	
		Sold from Depôts.			
Sukkur	Rohri Depôt ...	Bahan rafters	4,733	...	
		Do. posts	643	...	
		Do. logs	101	808	
		Jhau rafters	16	...	
		Bábul cart axles	508	...	
	Sukkur do. ...	Bahan posts	616	...	
		Do. rafters	5,220	...	
		Bábul posts	613	...	
		Jhau rafters	300	...	
		Bábul cart axles	465	...	
		Do. rafters	3	...	
		Do. logs	195	1,537	
		Tali do.	4	21	
		Sireh do.	1	11	
		Bahan do.	191	1,705	
		Firewood ... Mds.	2,407	...	
Jacobabad ...	.....	Bahan posts	500	...	
		Do. rafters	400	...	
Naushahro ...	.....	Bábul logs	15	196	
Sukkur	Shikárpur ...	Bahan do.	9	55	
		Bábul do.	10	109	
		Bahan posts	42	...	
	Lárkhána ...	Do. logs	3	15	
		Do. posts	13	...	
Naushahro ...	.....	Do. logs	74	670	
		Do. posts	497	...	
		Jhau do.	2	...	
		Bahan rafters	22	...	
		Kirir do.	25	...	
		Firewood ... Mds.	4,600	...	
	Sehwan	Bahan rafters	12,341	...	
		Do. posts	1,458	...	
		Do. logs	20	171	
		Bábul do.	11	...	
		Jhau rafters	200	...	
		Firewood ... Mds.	346	...	
	Hyderabad ...	Bábul logs	72	966	
		Bahan rafters	37,300	...	
Hyderabad ...	.....	Bábul logs	504	6,562	
		Do. do.	117	...	
		Do. posts	250	...	
		Do. slabs	738	...	
		Bahan posts	3,247	...	
		Do. rafters	60,056	...	
		Jhau do.	2,833	...	
		Bahan dasas	650	...	
		Bábul bark ... Mds.	200	...	
		Firewood ... „	52,497	...	
		Charcoal ... „	801	...	
		Sur Grass Bundles	247	...	
		Tooth brushes	89,900	...	
Jerruck	.....	Bábul logs	114	1,583	
		Bahan posts	50	...	

FORM No. 61—*continued.*

Division.	Depôt or Locality.	Produce Sold.			Remarks.
		Description.	Number or Quantity.	Cubic Feet.	
		Sold from Depôts—continued.			
Jerruck	Hyderabad ...	Bahan rafters	2,446	...	
		Jhau do.	200	...	
		Kirir do.	500	...	
		Charcoal ... Mds.	1,189	...	
		Firewood ... „	22,306	...	
Hyderabad ...	Kotri Depôt ...	Bábul logs	30	...	
		Do. planks	2,419	...	
		Do. slabs	678	...	
		Do. sleepers	600	...	
		Firewood ... Mds.	101,048	...	
		Charcoal ... „	1,639	...	
Jerruck	Do. ...	Bábul planks	581	532	
		Firewood ... Mds.	2,078	...	
	Karáchi Depôt ...	Do. ... „	11,500	...	
		Charcoal ... „	12	...	
	Tatta Depôt ...	Bábul logs	34	333	
		Do. posts	482	...	
		Jhau do.	3	...	
		Firewood ... Mds.	72	...	
		Charcoal ... „	286	...	
	Keti Bandar ...	Bábul logs	350	4,826	
		Firewood ... Mds.	16,344	...	
		Sold from Dâks and Railway fuel Stations.			
Sukkur	Sukkur Dâk ...	Steamer fuel ... Mds.	172,070	...	
	I. V. S. Railway Stations.	Loco. fuel ... C. feet	...	2,144,582	
Jacobabad ...	Do. do.	Do.	...	331,305	
Naushahro ...	Do. do.	Do.	...	1,391,049	
	Baharodero Dâk	Steamer fuel ... Mds.	300	...	
	Jamali „ ...	Do.	800	...	
	Sita „ ...	Do.	437	...	
	Rukan „ ...	Do.	1,039	...	
	Sehwan „ ...	Do.	4,118	...	
	Khiarodero „ ...	Do.	3,192	...	
Hyderabad ...	I. V. S. Railway Stations.	Loco. fuel ... C. feet	...	750,477	
	Unarpur Dâk ...	Steamer fuel ... Mds.	606	...	
	Mánjhand „ ...	Do.	2,788	...	
	Amri	Do.	350	...	
Jerruck	Kotri Railway Stations.	Loco. fuel	...	571,237	
	Khadi Dâk ...	Steamer fuel ... Mds.	73	...	
		Sold locally.			
Sukkur		Bahan logs	156	937	
		Bábul do.	4	91	
		Kandi do.	33	39	
		Tali do.	6	46	
		Jhau rafters	1,100	...	
		Bahan do.	4,699	...	
		Do. posts	125	...	

FORM No. 61—*continued.*

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Cubic Feet.	Remarks.
		Sold locally—continued.			
Sukkur	...	Bábul cart axles	400	...	
		Total Timber ...	6,523	1,113	
		Firewood ... ... Mds.	1,375	...	
		Loco. fuel ... ...C. feet.	...	55,465	
Naushahro ...	.....	Bahan posts	316	...	
		Jhau rafters	3,005	...	
		Bahan do.	2,100	...	
		Kandi logs	69	...	
		Bahan do.	26	...	
		Bábul do.	114	...	
		Jhau brushwood	16	...	
		Total Timber ...	5,646	...	
		Firewood ... ... Mds.	3,011	...	
		Charcoal ... ... „	812	...	
Jacobabad ...	.....	Bahan posts	9	...	
		Asri logs	4	17	
		Babul seed ... Mds.	2	...	
		Deodár logs	1	74	
Hyderabad ...	.....	Bahan posts	500	...	
		Bahan rafters	2,200	...	
		Bábul logs...	46	343	
		Do.	40	...	
		Firewood ... ... Mds.	65	...	
		Charcoal	1,125	...	
Jerruck	.....	Bábul logs...	386	2,321	
		Do. do.	94	...	
		Do. pieces	3,151	...	
		Do. posts	30	...	
		Jhau rafters	700	...	
		Firewood ... ... Mds.	102,352	...	
		Charcoal ... ... „	6,905	...	
		Loco. fuel ... ...C. feet.	...	96,078	
		Abstract of the Circle.			
		Bábul logs...	1,294	16,112	
		Do.	158	...	
		Bahan logs	398	3,424	
		Tali logs	4	21	
		Sireh do.	1	11	
		Planks	581	532	
		Do.	2,419	...	
		Sleepers	600	...	

FORM No. 61—*concluded.*

Division.	Depôt or Locality.	Produce sold. Description.	Number or Quantity.	Cubic Feet.	Remarks.
		Abstract of the Circle —continued.			
		Bahan dasas	650	...	
		Bábul posts	1,345	...	
		Bahan do.	7,066	...	
		Jhau do.	5	...	
		Bahan rafters	122,518	...	
		Jhau rafters	3,549	...	
		Kirir do.	525	...	
		Slabs	1,416	...	
		Bábul cart axles	973	...	
		Do. rafters	3	...	
		Total Timber ...	143,505	20,100	
		Firewood	213,198	Maunds.	
		Charcoal	3,927	,,	
		Tooth brushes	89,900	...	
		Bábul bark	200	Maunds.	
		Sold from Dáks	185,773	Mounds.	
		Do. Railway Stations ..	...	51,88,650	Cubic feet.
		Sold locally.			
		Bábul logs	436	2,755	
		Do.	248	...	
		Bahan logs...	156	937	
		Do.	26	...	
		Kandi logs...	33	39	
		Do.	69	...	
		Tali logs	6	46	
		Asri logs	4	17	
		Deodár logs	1	74	
		Bábul posts	39	...	
		Bahan do.	941	...	
		Bahan rafters	8,999	...	
		Jhau rafters	4,805	...	
		Do. brushwood	16	...	
		Bábul cart axles	400	...	
		Do. pieces	3,151	...	
		Total Timber ...	19,330	3,868	
		Firewood	106,803	Maunds.	
		Charcoal	8,842	,,	
		Bábul seed...	2	,,	
		Loco. fuel	...	1,51,543	Cubic feet.

J. G. McRAE, Lieutenant-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 62.

FOREST DEPARTMENT, SIND CIRCLE.

Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally during the year 1884-85.

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
TIMBER.				
Balance at commencement of the year.				
Sukkur Division. Bahan logs ...	328	2,950		
Bábul ,, ...	301	2,430		
Sireh ,, ...	67	253		
Tali ,, ...	1	3		
Bahan posts ...	3,132	.....		
,, rafters ...	18,358	.....		
Bábul posts ...	11	.....		
,, rafters ...	52	.....		
Jhau ,, ...	375	.....		
Bábul cart axles ...	417	.....	23,042	5,636
Jacobabad Division. Bábul logs ...	10	109		
Bahan posts ...	31	.....	41	109
Naushahro Division. Bahan logs ...	194	1,907		
,, posts ...	3,223	.....		
Jhau ,, ...	2	.....		
Bahan rafters ...	4,886	.....		
Kirir ,, ...	25	.....	8,330	1,907
Hyderabad Division. Bábul logs	910	10,775		
Bahan dasas ...	207	.....		
,, posts ...	1,116	.....		
,, rafters ...	28,996	.....		
Bábul posts ...	110	.....		
Kirir rafters ...	500	.....		
Jhau ,, ...	200	.....	32,039	10,775
Jerruck Division. Bábul logs	665	6,547		
,, posts ...	3,016	.....		
Jhau ,, ...	286	.....		
,, rafters ...	13	.....	3,980	6,547
Total Balance ...	.....	.....	67,432	24,974
Received from Forests in Depôts.				
Bábul logs	1,543	20,555		
,, ,, ...	859	.....		
Bahan ,, ...	136	1,252		
Tali ,, ...	41	171		
Bábul sleepers ...	700	.....		
Carried over ...	3,279	21,978	67,432	24,974

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
Removed by Purchasers from Depôts.				
Bábul logs	1,294	16,112		
,, ,, ...	158	.....		
Bahan logs	398	3,424		
Tali ,, ...	4	21		
Sireh ,, ...	1	11		
Sleepers	600	.....		
Bahan dasas	650	.....		
Bábul posts	1,345	.....		
Bahan ,, ...	7,066	.....		
Jhau ,, ...	5	.....		
Bahan rafters	122,518	.....		
Jahu ,, ...	3,549	.....		
Kirir ,, ...	525	.....		
Bábul ,, ...	3	.....		
,, cart axles	973	.. ...		
Planks	581	532		
Do	2,419	.....		
Slabs	1,416	.....	143,505	20,100
Sold locally.				
Bábul logs	436	2,755		
,, ,, ...	248	.....		
Bahan ,, ...	156	937		
,, ,, ...	26	.....		
Kandi ,, ...	33	39		
,, ,, ...	69	.....		
Tali ,, ...	6	46		
Asri ,, ...	4	17		
Deodár	1	74		
Bábul posts	39	.....		
Bahan ,, ...	941	.....		
,, rafters...	8,999	... ..		
Jhau ,, ...	4,805	.....		
,, brushwood	16	.....		
Bábul cart axles	400	.....		
,, pieces	3,151	.....	19,330	3,868
Carried over ...	.....	.....	162,835	23.968

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
Brought over ...	3,279	21,978	67,432	24,974
Received from Forests in Depôts—contd.				
Bábul posts	902	.....		
,, cart axles	1,347	.....		
Bahan posts	4,666	.....		
,, rafters	120,632	.....		
Jhau posts	501	.....		
,, rafters	3,033	.....		
Bahan dasas	443	.....		
			1,34,803	21,978
Received from the Forests and sold locally.				
Bábul logs	436	2,755		
,, ,, ...	248	.....		
Bahan ,, ...	156	937		
,, ,, ...	26	.....		
Kandi ,, ...	33	39		
,, ,, ...	69	.....		
Tali ,, ...	6	46		
Asri ,, ...	4	17		
Deodár ,, ...	1	74		
Bábul posts	39	.....		
Bahan ,, ...	941	.....		
,, rafters	8,999	.....		
Jhau ,, ...	4,805	.....		
,, brushwood...	16	.....		
Bábul cart axles	400	.....		
,, pieces...	3,151	.....		
			19,330	3,868
Received by Conversion in Depôts.				
Bábul planks	2,554	.....		
Slabs ,, ...	581	532		
	2,646	.....		
			5,781	532
Received by Transfer from Sale Depôts.				
Bábul logs	191	.....		
,, slabs	1,580	.....		
,, planks	403	.....		
			2,174	.....
Total Timber ...	.....	.....	2,29,520	51,352

Particulars.	Number or Quantity.	Cubic Feet.	Total of each Head. Number or Quantity.	Total of each Head. Cubic Feet.
Brought over ...	.....	.....	162,835	23,968
Used by Department.				
Bábul logs	10	90		
Bahan rafters	545	.....		
,, logs	2	28		
			557	118
Converted in Depôts.				
Bábul logs	95	923		
,, ,, ...	633	.....		
			728	923
Written off.				
Bahan logs	.....	260		
Bábul ,, ...	1	2		
Bahan posts	40	.....		
,, rafters	140	.....		
			181	262
Transferred to other Sale Depôts.				
Bábul logs	191	.....		
,, slabs	1,580	... ..		
Bábul planks	403	.....		
			2,174	.....
Balance at colse of the year.				
Sukkur Division. Bahan logs... ..	138	1,423		
Bábul ,, ...	156	971		
Sireh ,, ...	66	242		
Tali ,, ...	38	153		
Bahan posts ...	20,57	.....		
,, rafters ...	11,071	.....		
Bábul ,, ...	49	.....		
Jhau rafters ...	59	.....		
Bábul cart axles ...	791	.....		
			14,425	2,789
Jacobabad Division	.....	.....		
Naushahro Division. Bahan logs... ...	120	974		
,, posts ...	2,652	.....		
,, rafters ...	3,098	.....		
			5,870	974
Hyderabad Division. Bábul logs	1,421	16,634		
,, ,, ...	68	.....		
,, sleepers ...	100	.....		
Bahan posts ...	353	.....		
,, rafters ...	35,500	.....		
Bábul posts ...	160	.....		
,, slabs ...	1,230	.....		
,, planks ..	135	.....		
			38,967	16,634
Jerruck Division. Bábul logs	452	5,684		
,, posts ...	2,534	.....		
Jhau ,, ...	784	.....		
,, rafters	13	.....		
			3,783	5,684
Total Timber ...	.....	.....	229,520	51,352

Firewood, Charcoal, &c.						*Firewood, Charcoal, &c.*				
Balance at Commencement of the year.						*Removed from Depôts, Dáks and Railway Stations.*				
Sukkur Division.	Firewood ... Mds.	72,264	.....			Firewood ... ... Mds.	3,98,971	.....		
	Bábul bark... ,,	6	.....	72,270	.....	Locomotive fuel ... ... C. ft.	.....	51,88,650		
Jacobabad Division.	Locomotive fuel ... C. ft.	.....	2,00,000	.....	2,00,000	Charcoal ... ... Mds.	3,927	.....		
Naushahro Division.	Firewood ... Mds.	18,784	.....			Bábul bark ... ... ,,	200	.....		
	Locomotive fuel ... C. ft.	.....	.....	18,784	.....	Tooth brushes	89,900	.....		
Hyderabad Division.	Locomotive fuel ... Mds.	.....	2,25,000			Reed bundles	247	.....	493,245	51,88,650
	Firewood ... ,,	30,680	.....			*Sold locally.*				
	Charcoal ... ,,	410	.....			Firewood ... ... Mds.	1,06,803	.....		
	Bábul bark.. ,,	200	.....			Charcoal ... ... ,,	8,842	.....		
	Reed bundles ...	125	.....		2,25,000	Bábul seed ... ... ,,	2	.....		
				31,415		Locomotive fuel ... ... C. ft.	.....	1,51,543	115,647	1,51,543
Jerruck Division.	Firewood ... Mds.	17,923	.....			*Transferred to other Depôts and Railway Stations.*				
	Charcoal ... ,,	1,565	.....		.....	Firewood ... ... Mds.	1,388	.....		
				19,488		Locomotive fuel ... ... C. ft.	.....	1,62,000	1,388	1,62,000
Received from the Forests in Sale Depôts, Dáks and Railway Stations.						*Written off.*				
						Firewood ... ... Mds.	1,337	.....	1,337	.....
Firewood ... ... Mds.		3,59,897	.....			*Balance at close of the year.*				
Locomotive fuel ... ... C. ft.		.....	55,20,496							
Charcoal ... ... Mds.		3,871	.....			Sukkur Division.	Firewood ... Mds.	53,307	.....	
Reed bundles		122	.....				Locomotive fuel ... C. ft.	.....	5,87,958	
Tooth brushes		89,900	.....				Bábul bark.. Mds.	6	.....	53,313	5,87,958
				453,790	55,20,496	Jacobabad Division.	Locomotive fuel ... C. ft.	.....	84,000	.....	84,000
Received from Forests and sold locally.						Naushahro Division.	Firewood ... Mds.	15,702	.....	
Firewood ... ... Mds.		1,06,803	.....				Locomotive fuel ... C. ft.	.....	76,175	
Charcoal... ... ... ,,		8,842	.....							15,702	76,175
Bábul seed ... ... ,,		2	.....			Hyderabad Division.	Firewod ... Mds.	19,724	.....	
Locomotive fuel ... ... C. ft.		.....	1,51,543				Charcoal ... ,,	355	.....	
				115,647	1,51,543					20,079	.....
Received by Transfer from other Depôts and Stations.						Jerruck Division.	Firewood ... Mds.	10,507	.....	
							Charcoal ... ,,	1,564	.....	
Firewood ... ... Mds.		1,388	.....				Locomotive fuel ... C. ft.	.....	8,713	
Locomotive fuel ... ... C. ft.		.....	1,62,000	1,388	1,62,000					12,071	8,713
Total, Firewood, Charcoal, &c. ...		.....	.....	712,782	62,59,039	Total, Firewood, Charcoal, &c. ...		.....	.....	712,782	62,59,039

Hyderabad,
21st September 1885.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 63.

Forest Department, Sind Circle.

Timber and other Produce cut, collected, and removed from the Forests by Consumers or Purchasers, including Pasture, during the year 1884-85.

Division.	Produce removed. Description.	Number or Quantity.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Sukkur ...	Bahan logs	32	48	48	
	Jhau do.	14	14	14	
	Kandi do.	96	111	111	
	Jhau rafters	36,636	766	766	
	Tali logs	1	2	2	
	Kirir rafters	112	3	3	
	Bahan do.	1,390	110	110	
	Total ...	38,281	1,054	1,054	
	Bahan logs ... C.ft.	936	214	220	This sum includes Rs. 6 on account of outstandings.
	Jhau ,do. ... „	318	42	42	
	Kardi do. ... „	743	123	123	
	Tali do. ... „	83	51	51	
	Bábul do. ... „	48	8	8	
	Total ...	2,128	438	444	
	Firewood ... ... Mds.	160,787	10,342	10,342	
	Do. ... C.ft.	62,074	595	595	
	Charcoal ... ... Mds.	643	183	183	
	Total ...	223,504	11,120	11,120	
	Grazing cattle	...	13,452	13,452	
	Grass ... ... Mds.	136	13	13	
	Total ...	136	13,465	13,465	
	Reed contracts	...	367	367	
	Jhau brushwood... Bdls.	5,651	354	354	
	Kanh grass ... „	235	16	16	
	Compensation for damaging forests.	...	168	168	
	Tooth brushes ... No.	13	13	13	
	Grass ... ... Mds.	700	66	66	
	Total ...	6,599	984	984	
	Total Revenue under II...	...	27,061	27,067	

FORM No. 63—*continued.*

Division	Produce removed. Description.	Number or Quantity.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Jacobabad ...	Bahan logs ... ... No.	249	193	193	
	Bábul do. ... „	48	98	98	
	Kandi do. ... „	139	12	12	
	Asri do. ... „	67	62	62	
	Lai do. ... „	215	38	38	
	Bahan posts ... „	166	27	24	
	Bahan rafters	3,953	296	276	
	Jhau do.	53,090	1,065	1,065	
	Do. posts	1,598	233	233	
	Kirir rafters	1,740	43	43	
	do. timber	20	3	3	
	Jhau brushwood	121	7	7	
	Total ...	61,406	2,077	2,054	
	Firewood ... ... Mds.	142,150	8,940	8,940	
	Charcoal ... ... „	1,583	396	396	
		1,43,733	9,336	9,336	
	Sur grass ... Bundles.	96	6	6	
	Total, Revenue under II..	...	11,419	11,396	
Nausháhro ...	Bábul logs	44	63	63	
	Bahan do.	19	18	18	
	Kandi do.	47	22	22	
	Jhau rafters	13,875	306	306	
	Kirir do.	1,250	14	14	
	Jhau brushwood	108	7	7	
	Bahan rafters	25	1	1	
	do. posts	50	4	4	
	Total ...	15,418	435	435	
	Firewood ... ... Mds.	37,475	2,344	2,344	
	Loco. fuel ... ... Cft.	13,200	165	165	
	Charcoal ... ... Mds.	251	46	46	
	Total ...	...	2,555	2,555	
	Grazing cattle	...	6,632	6,632	
	Bábul pod contract ...	...	1,687	1,687	
	Reed do.	...	243	243	
	Kanh grass ... Bundles.	210	12	12	
	Fruit	...	10	10	
	Total ...	...	1,952	1,952	
	Total Revenue under II ...	...	11,574	11,574	

FORM No. 63—*continued.*

Division.	Produce removed. Description.	Number or Quantity.	Amount of Revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Hyderabad ...	Bábul logs	538	358	358	
	Bábul posts	185	11	11	
	Bahan do.	100	10	10	
	Bahan rafters	770	35	35	
	Jhau pieces	11	11	11	
	Do. rafters	2,150	43	43	
	Do. bundles	170	11	11	
	Bábul slabs	9	1	1	
	Total ...	3,933	480	480	
	Firewood ... ... Mds.	29,144	2,010	2,010	
	Charcoal ... ... „	1	1	1	
		29,145	2,011	2,011	
	Grazing cattle	...	12,290	12,290	
	Kanh grass ...Bundles.	331	21	21	
	Bábul bark ... Mds.	10	9	9	
	Sur grass ...Bundles.	42	2	2	
	Tooth brushes ... Mds.	84	42	42	
	Do ... No.	14,000	6	6	
	Kanh grass contract ...	...	15	15	
	Lac ... ... Mds.	2	12	12	
	Do. contract	...	2,295	2,295	
	Fruit ... ... do.	...	270	270	
	Bábul pods ... do.	...	6,361	6,361	
	Total ...	...	9,033	9,033	
	Total Revenue of Hyderabad Division under II.	...	23,814	23,814	
Jerruck ...	Bábul logs	258	321	321	
	Bábul posts	820	119	119	
	Bábul rafters	8,184	89	89	
	Jhau do.	600	12	12	
	Jhau brushwood ...	506	31	31	
	Total ...	10,368	572	572	
	Firewood ... ... Cft.	122,059	1,220	1,220	
	Do. ... ... Mds.	3,667	224	224	
	Total ...	...	1,444	1,444	
	Grazing cattle	...	9,812	9,812	
	Grass	...	13	13	
	Total ...	...	9,825	9,825	
	Bábul pods	...	2,573	2,573	
	Fruit	...	63	63	
	Kanh grass ... Bundles.	40	3	3	
	Total ...	...	2,639	2,639	
	Total Revenue under II ...	...	14,480	14,480	
	Total Revenue of the Circle under II. ...	...	88,348	88,331	

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 64.

FOREST DEPARTMENT, SIND CIRCLE.

Revenue derived from, and Expenditure incurred on, Timber and other Produce sold to Public Departments from Depôts during the year 1884-85.

Name of Department.	Particulars of Supplies.	Amount supplied.	Rate.		Amount of Revenue.			Cost to Forest Department.			Comparison of Revenue and Expenditure.		Remarks.
			At.	Per.	Due.	Received.	Outstanding.	Timber Expensesunder A. I.	Quota of all other Expenditure chargeable against Timber.	Total.	Surplus.	Deficit.	
		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			
Sukkur Division.													
I. V. S. Railway	Locomotive fuel	16,84,359	Rs. 42	1,000 cubic feet.	70,743	70,093	650	52,930	..	52,930	..	..	
Do.	.....	3,99,642	,, 32	Do.	12,798	11,202	1,596	8,349	..	8,349	..	..	
Do.	....	52,612	,, 21	....	1,105	..	1,105	1,105	..	1,105	..	..	
Do.	Steamer fuel	1,46,475	,, 18	100 maunds	26,365	26,365	..	20,122	..	20,122	..	..	
Do.	Do.	13,132	,, 17 8	Do.	2,298	2,298	..	1,703	..	1,703	..	..	
Do.	Bâbul logs	387	10 & 9 annas	Cubic feet	230	230	..	124	..	124	..	..	
Revenue Department	Steamer fuel	1,800	Rs. 18	100 maunds	324	..	324	243	..	243	..	..	Punjab Government Steamer.
Do.	Locomotive fuel	4,500	,, 42	1,000 cubic feet.	189	..	189	140	....	140	..	..	Do.
Indus Conservancy	Steamer fuel	1,100	,, 18	100 maunds	198	198	..	149	..	149	..	..	
Marine Department	Do.	700	,, 18	100 ,,	126	126	..	94	..	94	..	..	
Sukkur Municipality	Do.	3,850	,, 18	100 ,,	693	639	54	500	..	500	..	..	
Total, Sukkur Division	....	..	....	....	1,15,069	1,11,151	3,918	85,459	..	85,459	29,610	..	
Jacobabad Division.													
I. V. S. Railway	Locomotive fuel	3,02,500	Rs. 32	1,000 cubic feet.	9,680	9,680	..	6,526	..	6,526	..	..	
Do.	Do.	28,805	,, 37	Do.	1,066	1,066	..	778	..	778	..	..	
Revenue Department	Bâbul seed	2	,, 6	Maund	12	12	..	11	..	11	..	..	
Total, Jacobabad Division	....	..	....	....	10,758	10,758	..	7,315	..	7,315	3,443	..	
Naushâhro Division.													
I. V. S. Railway	Bâbul logs	30	Annas 12	Cubic feet	23	23	..	..	..	..	..	..	Expenditure incurred in previous year.
Do.	Locomotive fuel	11,36,231	Rs. 42	1,000 cubic feet.	47,722	46,693	..	36,191	..	36,191	..	..	*Rs. 1,029 refunded to the railway authorities on account of locomotive fuel rejected at Râdhan Station.
Do.	Do.	2,54,793	,, 32	Do.	8,153	8,153	..	5,492	..	5,492	..	..	
Do.	Steamer fuel	781	,, 18	100 maunds	141	141	..	82	..	82	..	..	
Do.	Do.	300	,, 18	100 ,,	54	54	..	30	..	30	..	..	
Indus Conservancy	Do.	1,236	,, 18	100 ,,	223	223	..	136	..	136	..	..	
Total, Naushâhro Division	....	..	....	....	56,316	55,287	..	41,931	..	41,931	14,385	..	
Hyderabad Division.													
S. P. & D. Railway	Firewood	20,550	Rs. 19 10 0	100 maunds	4,038	3,642	396	2,805	..	2,805	..	..	
Water-works	Do.	24,725	,, 18	Do.	4,450	1,485	2,965	3,570	..	3,570	..	..	
Government Farm, Hyderabad	Do.	3,500	,, 18	Do.	630	630	..	455	..	455	..	..	
Indus Ferry	Do.	25,600	,, 18	Do.	4,608	4,608	..	3,072	..	3,072	..	..	
Marine	Do.	5,675	,, 18	Do.	1,021	1,021	..	781	..	781	..	..	
Jail	Do.	2,788	,, 18 3	Do.	507	507	..	334	..	334	..	..	
Military	Do.	6,255	,, 25 14 8	Do.	1,621	1,621	..	1,163	..	1,163	..	..	
Do.	Charcoal	3	,, 0 10 8	Maund	2	2	..	1	..	1	..	..	
I. V. S. Railway	Locomotive fuel	2,29,151	,, 42 0 0	1,000 cubic feet.	9,624	9,624	..	7,347	..	7,347	..	..	
Do.	Do.	5,21,326	,, 36 0 0	1,000 do.	18,768	18,768	..	13,033	..	13,033	..	..	
Do.	Do.	3,750	,, 18 0 0	100 maunds	675	675	..	450	..	450	..	..	
Do.	Planks	2,419	,, 1 7 9	Plank	3,595	3,595	..	2,397	..	2,397	..	..	
Indus Conservancy	Firewood	2,807	,, 18 0 0	100 maunds	505	505	..	337	..	337	..	..	
I. V. S. Railway	Charcoal	660	,, 55 2 5	100 do.	364	364	..	199	..	199	..	..	
Port Engineer	Sleeper	600	,, 3 0 0	Sleeper	1,800	1,800	..	818	..	818	..	..	
Public Works	Firewood	159	,, 19 8 0	100 maunds	31	31	..	26	..	26	..	..	
Total, Hyderabad Division	....	..	....	....	52,239	48,878	3,361	36,788	..	36,788	15,451	..	
Jerruck Division.													
Gun Carriage	Logs	4,826	Rs. 1 13 6	Cubic feet	8,907	8,907	..	7,510	..	7,510	..	..	
I. V. S. Railway	Planks	532	,, 1 8 0	Do.	798	798	..	532	..	532	..	..	
Military	Firewood	24,216	,, 35 12 0	100 maunds	8,657	8,179	478	5,947	..	5,947	..	..	
Do.	Charcoal	12	,, 1 0 0	Maund	12	12	..	1	..	1	..	..	
Port Engineer	Firewood	68,391	,, 29 0 0	100 maunds	19,833	19,833	..	14,187	..	14,187	..	..	
Indus Conservancy	Do.	1,446	,, 18 0 0	100 do.	260	260	..	188	..	188	..	..	
Marine	Do.	2,913	,, 18 0 0	100 do.	524	524	..	379	..	379	..	..	
Military	Do.	110	,, 18 0 0	100 do.	20	20	..	11	..	11	..	..	
Public Works	Do.	65	,, 18 0 0	100 do.	12	12	..	7	..	7	..	..	
Jail	Do.	171	,, 18 0 0	100 do.	31	31	..	20	..	20	..	..	
I. V. S. Railway	Locomotive fuel	5,71,267	,, 42 0 0	1,000 cubic feet.	23,994	23,992	..	14,600	..	14,600	..	..	
S. P. & D. Railway	Firewood	1,200	19 13 3	100 maunds	238	238	..	166	..	166	..	..	
Total, Jerruck Division	....	..	....	....	63,284	62,806	478	43,548	..	43,548	19,736	..	
Total of the Circle	....	..	....	....	2,97,666	2,88,880	7,757	2,15,041	..	2,15,041	82,625	..	

J. G. McRAE, Lieutenant-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 65.

FOREST DEPARTMENT, SIND CIRCLE.

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1884-85.

	Description of Timber and other Produce.	On hand at Commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
		Number.	Cubic Feet.	Value.	Number.	Cubic Feet.	Value.	In Favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Sukkur Division.	Bahan logs	328	2,950	1,475	138	1,423	711	...	..	
	Bábul ,, ...	301	2,430	1,215	156	971	485	...	...	
	Sireh ,, ...	67	253	126	66	242	121	...	...	
	Tali ,, ...	1	3	2	38	153	76	...	...	
	Bahan posts	3,132	...	1,096	2,057	...	712	...	...	
	Do. rafters	18,358	...	1,835	11,071	...	1,107	...	...	
	Bábul posts	11	...	4	...	...	...	...	...	
	Do. rafters	52	...	6	49	...	6	...	...	
	Jhau do.	375	...	19	59	...	3	...	...	
	Bábul cart Axles	417	...	83	791	...	158	...	...	
	Total Timber ...	23,042	5,636	5,861	14,425	2,789	3,379	...	2,482	
	Firewood ... ... Mds.	72,264	...	13,008	53,307	...	9,595	...	...	
	Loco. fuel ... C. ft.	...	...	...	5,87,958	...	22,183	...	...	
	Bábul bark ... Mds.	6	...	3	6	...	3	...	...	
	Total Fuel ...	72,270	...	13,011	6,41,271	...	31,781	18,770	...	
Jacobabad Division.	Bábul logs	10	109	41	...	...	...	...	...	
	Bahan posts.	31	...	10	...	...	...	..	...	
	Total ...	41	109	51	...	...	...	...	51	
	Loco. fuel ... C. ft.	...	2,00,000	6,400	...	84,000	2,658	...	3,742	
Naushahro Division.	Bahan logs	194	1,907	729	120	974	294	...	...	
	Do. posts	3,223	...	504	2,652	...	228	...	...	
	Jhau do.	2	...	2	...	...	...	...	...	
	Bahan rafters	4,886	...	488	3,098	...	310	..	...	
	Kirir do.	25	...	1	...	...	...	...	...	
	Total Timber ...	8,330	1,907	1,724	5,870	974	832	...	892	
	Firewood ... ... Mds.	18,784	...	3,381	15,702	...	1,550	...	...	
	Loco. fuel ... C. ft.	...	...	...	..	76,175	2,038	...	...	
	Total Fuel ...	18,784	...	3,381	15,702	76,175	3,588	207	...	
Hyderabad Division.	Bábul logs	910	10,775	6,734	1,421	16,634	10,397	...	...	
	Bahan dasas	207	...	100	...	...	...	...	...	
	Do. posts	1,116	...	332	353	..	105	...	...	
	Do. rafters	28,996	...	2,827	35,500	...	3,462	...	...	
	Bábul posts	110	...	16	160	..	24	...	...	
	Kirir rafters	500	...	20	...	...	...	...	...	
	Jhau do.	200	..	10	...	...	...	...	...	
	Bábul logs ... No.	...	...	...	68	...	68	...	...	
	Do. sleepers	...	...	...	100	...	300	...	...	
	Do. slabs	...	...	...	1,230	...	307	...	...	
	Do. planks	...	...	...	135	...	71	...	...	
	Total Timber ...	32,039	10,775	10,039	38,967	16,634	14,734	4,695	...	
	Firewood ... ... Mds.	30,680	..	5,829	19,724	...	3,550	...	...	
	Loco. fuel ... C. ft.	...	2,25,000	9,450	...	...	...	...	...	
	Charcoal ... ... Mds.	410	...	209	355	...	183	...	...	
	Bábul bark	200	...	69	...	...	...	...	...	
	Reed ... Bundles.	125	...	13	...	...	...	...	...	
	Total Fuel ...	31,415	2,25,000	15,570	20,079	...	3,753	...	11,837	
Jerruck Division.	Bábul logs	665	6,547	5,729	452	5,684	4,973	...	...	
	Do. posts	3,016	...	392	2,534	...	330	...	...	
	Jhau do.	286	...	35	784	...	94	..	...	
	Do. rafters	13	...	1	13	...	1	...	...	
	Total Timber ...	3,980	6,547	6,157	3,783	5,684	5,398	...	759	
	Firewood ... ... Mds.	17,923	...	6,273	10,507	...	3,675	...	...	
	Charcoal ... ... Do.	1,565	...	978	1,564	...	978	...	...	
	Loco. fuel ... C. ft.	...	...	...	...	8,713	3,654	...	...	
	Total Fuel, &c. ...	19,488	...	7,251	12,071	8,713	8,307	1,056	...	

Net difference in favor of the year—Rs. 4,965.

Camp Hyderabad, 21st September 1885.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 50.

FOREST DEPARTMENT, SIND CIRCLE.

Area of Plantations, 1884-85.

Division.	Name of Plantation.	On 1st April 1884.		Added During 1884-85.		On 31st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
	Regular Plantation.							
Sukkur ...	Aliwahan garden	20	2,371	...	84	20	2,455	
	Rahuja nursery	10	2,998	...	597	10	3,595	
	Sadhuja plantation ...	30	793	30	1,211	60	2,004	
Hyderabad ...	Divi-divi plantation ...	10	504	3	420	13	924	
	Bámbu plantation ...	13	576	...	576	13	1,152	
	Miani Bungalow mango, &c.	12	583	...	625	12	1,208	
	Monument gardens ...							
Jerruck ...	Malir nursery	8	1,482	16	400	24	1,882	
	Sonda do.	5	...	...	455	5	455	
	Total, Regular Plantation.	108	9,307	49	4,368	157	13,675	
	Cultural Operation.							
Sukkur ...	Jauwár	*1,857	...	...	...	...	...	*1,857 acres were opened to grazing, the growth having attained such dimensions as not to require any further protection.
	Raoti	200	...	...	...	...	...	200 acres do. do.
	Bahab	236	...	100	11	100	...	236 do. do. do.
	Sadhuja Jinn	70	...	30	...	30	...	70 do. do. do.
	Do. Than	...	...	40	1	40	1	531 do. do. do.
	Budh	531	...	...	...	...	...	
	Sháhpur	100	...	410	27	410	27	100 do. do. do.
	Ghotki	600	...	...	...	...	...	600 do. do. do.
	Syedpur	500	...	...	...	...	...	500 do. do. do.
	Rohri	969	...	...	...	...	...	969 do. do. do.
	Ding	415	...	10	2	10	2	415 do. do. do.
	Shahu	150	...	...	...	...	...	150 do. do. do.
	Abad	786	...	50	84	50	84	786 do. do. do.
	Khiabindi	104	...	...	...	...	...	104 do. do. do.
	Shah	982	...	...	...	...	...	982 do. do. do.
	Kadrápur	1,044	...	...	...	75	...	969 do. do. do.
	Bindi Dhareja	652	...	50	21	50	21	652 do. do. do.
	Total ...	9,196	...	690	146	765	146	†This expenditure has been charged under A. VIII. (*f.*)
Nausháhro ...	Kamaldero...	163	...	...	...	127	...	36 acres opened to grazing.
	Bhaur	652	...	...	...	633	...	19 do. do. do.
	Samtia	350	...	...	...	150	...	200 do. do. do.
	Mohbatdero	560	...	...	...	30	...	530 do. do. do.
	Kanuri	...	...	10	...	10	...	
	Keti Ubhuro	...	...	10	...	10	...	
	Bhorti	340	...	...	...	200	...	140 do. do. do.
	Dalipota	...	...	50	...	50	...	
	Khairodero...	350	...	...	...	310	...	40 do. do. do.
	Lalia	80	...	70	...	150	...	
	Karampur	17	...	..	...	15	...	2 do. do. do.
	Keti Lalia	35	...	...	...	15	...	20 do. do. do.
	Total ...	2,547	...	140	...	1,700	...	

FORM No. 50—*continued.*

Division.	Name of Plantation.	On 1st April 1884.		Added during 1884-85.		On 31st March 1885.		Remarks.
		Area.	Cost.	Area.	Cost.	Area.	Cost.	
		Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
Hyderabad ...	Lakhat	12	...	...	168	12	168	
	Nasri	265	...	...	168	265	168	
	Mad	110	...	...	...	...	...	110 acres opened to grazing.
	Mahrabpur	1,813	...	93	72	186	72	1,720 do. do. do.
	Mari	7,599	...	640	144	6,959	144	1,280 do. do. do.
	Keti Jurio...	25	...	...	...	...	...	25 do. do. do.
	Nurketi	2,988	...	...	...	...	...	2,988 do. do. do.
	Bhanote	50	...	...	...	...	...	50 do. do. do.
	Rano	25	...	...	...	...	...	25 do. do. do.
	Khanote	3,550	...	...	312	220	312	3,330 do. do. do.
	Khebrani	50	...	...	...	...	...	50 do. do. do.
	Jakhri	140	...	...	...	140	...	
	Matiari	4,665	...	...	168	4,265	168	400 do. do. do.
	Miani	2,598	...	...	252	2,598	252	
	Katri	180	...	...	277	180	277	
	Shah Makai	43	...	...	84	43	84	
	Jam Shoro...	23	...	...	168	23	168	
	Butto	5,825	...	...	156	640	156	5,185 do. do. do.
	Mánjhand	268	...	...	84	108	84	160 do. do. do.
	Unarpur	3,370	...	...	156	3,150	156	220 do. do. do.
	Karokho	586	...	...	...	586	...	
	Total ...	34,185	...	733	2,209	19,375	2,209	Rs. 2,209 charged under A. VIII. (*f.*)
Jerruck ...	Mulchand	187	...	...	92	136	92	51 acres opened to grazing.
	Khadi	853	...	901	98	901	98	853 do. do. do.
	Susati	40	...	...	...	...	...	40 do. do. do.
	Huderani	50	...	...	...	...	...	50 do. do. do.
	Penah	27	...	...	...	13	...	14 do. do. do.
	Surjani	52	...	...	...	...	...	52 do. do. do.
	Ganj	436	...	...	...	15	...	421 do. do. do.
	Laikpur	17	...	160	...	160	...	17 do. do. do.
	Hazari	47	...	...	...	...	...	47 do. do. do.
	Mukbulo	5	...	...	...	...	...	5 do. do. do.
	Viran	655	...	...	122	655	122	
	Hilaya	30	...	...	...	...	...	30 do. do. do.
	Lalang	332	...	...	...	...	...	332 do. do. do.
	Garko	36	...	400	75	436	75	
	Shah Lanko	25	...	75	...	100	...	
	Tikhur	90	...	...	...	8	...	82 do. do. do.
	Khathar	501	...	260	133	260	133	501 do. do. do.
	Budka	101	...	...	...	...	...	101 do. do. do.
	Total ...	3,484	...	1,796	520	2,684	520	Rs. 520 charged under VIII. (*f.*)
	Total, Regular Plantation.	108	9,307	49	4,368	157	13,675	
	Total, Cultural Plantation.	49,412	...	3,359	2,875	24,524	2,875	28,247 acres opened to grazing.

Hyderabad, 21st September 1885.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle

FORM No. 51.

FOREST DEPARTMENT, SIND CIRCLE.

Area of Forest Tracts protected from Fire during the dry Season, 1885, to accompany Report for 1884-85.

Division.	Forest Tracts.	Up to 15th June 1884.		During dry season, 1885.				Total Cost up to 15th June 1885.	Year in which Protection commenced.	Remarks.
		Area actually protected.	Total Cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs.	Acres.	Acres.	Acres.	Rs.	Rs.		
Sukkur	Gubla Range	26,163	321	26,163	702	25,461	...	321	Not known.	As all the forests are equally protected against fires, the entire area of the Sind forests has been given in column "Area attempted to be protected."
	Rohri do.	61,682	2,878	61,682	447	61,235	95	2,973		
	Abad do.	39,999	515	39,999	35	39,964	37	552		
	Sukkur do.	26,113	37	26,113	237	25,876	...	37		
Nausháhro	Kandiáro do.	36,577	...	36,577	170	36,407	...	....		
	Bhorti do.	13,140	...	13,140	63	13,077	...	...		
	Khairodero do.	20,189	...	20,189	61	20,128	...	...		
	Tigir do.	7,314	...	7,314	...	7,314	...	...		
Hyderabad	Rano do.	45,501	...	45,501	169	45,332	...	...		
	Miani do.	29,818	...	29,818	30	29,788	...	...		
	Hyderabad do.	703	...	703	...	703	...	...		
	Kotri do.	7,224	...	7,224	...	7,224	...	...		
	Unarpur do.	20,980	...	20,980	...	20,980	...	...		
Jerruck	Viran do.	25,074	...	25,074	...	25,074	...	...		
	Sháhbandar do.	37,311	...	37,311	80	37,231	...	...		
	Katiar do.	9,253	...	9,253	...	9,253	...	...		
	Karáchi do.	24	...	24	...	24	...	...		
	Total ...	407,065	3,751	407,065	1,994	405,071	132	3,883	...	

Charged in previous years	...	3,584
Ditto 1884-85	...	299
Ditto 1885-86	...	...
Total ...		3,883

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 52.

FOREST DEPARTMENT, SIND CIRCLE.

Prosecutions for Breaches of Forest Rules during 1884-85.

Forest Division and Civil District.	Cases pending from 1883-84.	New Cases of the Year.					Total Cases.	Disposed of during the Year.						Cases pending at close of year.
		Injury to Forest by Fire.	Unauthorised Felling or Appropriation of Wood and Minor Forest Produce.	Grazing without Permission or in Tracts in which grazing is prohibited.	Other Offences.	Total new Cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Upper Sind Frontier District, Jacobabad Division	...	...	15	...	...	15	15	13	19	2	4	15	23	...
Shikárpur District.														
Sukkur Division	5	3	11	4	5	23	28	13	19	13	40	26	59	2
Nausháhro „	...	...	8	1	1	10	10	7	13	3	12	10	25	...
Jacobabad „	...	...	1	...	...	1	1	...	...	1	5	1	5	...
Hyderabad District.														
Nausháhro Division	...	...	25	...	1	26	26	18	23	6	13	24	36	2
Hyderabad „	...	1	10	...	1	12	12	10	10	2	2	12	12	...
Jerruck „	...	...	1	...	...	1	1	1	2	...	...	1	2	...
Karáchi District.														
Jerruck Division	...	...	...	1	...	1	1	...	...	1	4	1	4	...
Nausháhro „	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyderabad „	...	...	8	...	1	9	9	7	12	2	2	9	14	...
Total ...	5	4	79	6	9	98	103	69	98	30	82	99	180	4

Hyderabad, 21st September 1885.

J. G. McRAE, Lieut.-Colonel,
Conservator of Forests, Sind Circle.

FORM No. 56.

Forest Department, Bombay, Sind Circle.

Revenue realized and outstandings on account of Revenue during 1884-85.

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Jacobabad ...	*I.—Timber and other produce removed from Forests by Government Agency—*						
	a. Timber	.....	239 0 0	239 0 0	239 0 0	.....	
	b. Firewood and charcoal ...	.....	10,745 12 7	10,745 12 7	10,745 12 7	.....	
	c. Bámbus	.....	.....	.....	...	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	12 7 6	12 7 6	12 7 6	.....	
	II.—Timber and other produce removed from the Forests by consumers and Purchasers—						
	a. Timber	.....	2,238 12 6	2,238 12 6	2,053 12 6	185 0 0	
	b. Firewood and charcoal ...	.....	9,336 4 10	9,336 4 10	9,336 4 10	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ...	.....	.....	.....	.....	.....	
	e. Other minor produce ...	.....	6 0 0	6 0 0	6 0 0	.....	
	III.—Confiscated, Drift and Waif Wood	.....	45 11 0	45 11 0	45 11 0	.....	
	Total, Jacobabad ...	.....	22,624 0 5	22,624 0 5	22,439 0 5	185 0 0	
Jerruck ...	*I.—Timber and other produce removed from Forests by Government Agency—*						
	a. Timber	306 15 0	13,011 6 5	13,318 5 5	13,318 5 5	.....	Outstandings under V *c.* amount to Rs. 182-7-3.
	b. Firewood and charcoal ..	308 4 9	71,659 1 9	71,967 6 6	71,464 0 0	503 6 6	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	The outstandings at the end of the year include 3 items on account of the outstandings of the previous year.
	e. Grass and other minor produce	.....	68 6 0	68 6 0	68 6 0	.....	
	II.—Timber and other produce removed from Forests by Consumers and Purchasers—						
	a. Timber	.....	621 10 0	621 10 0	572 1 9	49 8 3	
	b. Firewood and charcoal ...	.....	1,444 2 0	1,444 2 0	1,444 2 0	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ...	3 4 0	9,824 14 0	9,828 2 0	9,824 14 0	3 4 0	
	e. Other minor produce ...	.....	2,638 10 2	2,638 10 2	2,638 10 2	.....	
	III.—Confiscated, Drift and Waif Wood	.....	... ..	.....	.....	.....	
	Total, Jerruck ...	618 7 9	99,268 2 4	99,886 10 1	99,330 7 4	556 2 9	
Hyderabad ...	*I.—Timber and other produce removed from the Forests by Government Agency—*						
	a. Timber	910 4 0	20,321 7 7	21,231 11 7	21,230 11 7	1 0 0	The outstandings under V *c.* at the end of the year amount to Rs. 697-13-5.
	b. Firewood and charcoal ...	596 4 0	59,762 5 3	60,358 9 3	56,868 13 3	3,489 12 0	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	225 10 9	225 10 9	225 10 9	.....	
	II.—Timber and other produce removed from the Forests by Consumers and Purchasers—						
	a. Timber	.....	480 2 7	480 2 7	480 2 7	.....	
	b. Firewood and charcoal ...	.....	2,011 2 5	2,011 2 5	2,011 2 5	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ..	.....	12,289 7 0	12,289 7 0	12,289 7 0	.....	
	e. Other minor produce ...	.....	9,032 11 8	9,032 11 8	9,032 11 8	.....	
	III.—Confiscated, Drift and Waif Wood	.....	.....	.....	.....	.....	
	Total, Hyderabad ...	1,506 8 0	1,04,122 15 3	1,05,629 7 3	1,02,138 11 3	3,490 12 0	

FORM No. 56—*continued.*

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Naushahro ...	*I.—Timber and other produce removed from the Forests by Government Agency—*						
	a. Timber	70 0 0	6,542 8 11	6,612 8 11	6,612 8 11	.....	The outstandings under V *c.* at the end of the year amount to Rs. 195-7-2.
	b. Firewood and charcoal ...	.....	57,470 11 7	57,470 11 7	57,470 11 7	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	0 8 0	0 8 0	0 8 0	.....	
	II.—Timber and other produce removed from the Forests by Consumers and Purchasers—						
	a. Timber	0 9 3	435 1 11	435 11 2	435 11 2	.....	
	b. Firewood and charcoal ...	.....	2,554 9 6	2,554 9 6	2,554 9 6	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ...	.....	6,632 1 0	6,632 1 0	6,632 1 0	.....	
	e. Other minor produce ...	.....	2,116 3 6	2,116 3 6	1,952 3 6	164 0 0	
	III.—Confiscated, Drift and Waif Wood	.....	2 9 0	2 9 0	2 9 0	.....	
	Total, Naushahro ...	70 9 3	75,754 5 5	75,824 14 8	75,660 14 8	164 0 0	
Sukkur ...	*I.—Timber and other minor produce removed from the Forests by Government Agency—*						
	a. Timber	.....	5,283 0 8	5,283 0 8	5,283 0 8	.....	The outstandings under V *c.* at the end of the year amount to Rs. 228.
	b. Firewood and charcoal ...	1,827 6 0	1,16,808 1 10	1,18,635 7 10	1,15,243 13 2	3,391 10 8	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	133 3 11	133 3 11	133 3 11	.....	
	II.—Timber and other produce removed from the Forests by Consumers and Purchasers—						
	a. Timber	21 12 10	1,475 14 5	1,497 11 3	1,497 11 3	.....	
	b. Firewood and charcoal ...	.....	11,119 15 9	11,119 15 9	11,119 15 9	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ...	.....	13,464 10 9	13,464 10 9	13,464 10 9	.....	
	e. Other minor produce ...	1 0 0	983 9 3	984 9 3	984 9 3	.....	
	III.—Confiscated, Drift and Waif Wood	.....	1 8 0	1 8 0	1 8 0	.....	
	Total, Sukkur ...	1,850 2 10	1,49,270 0 7	1,51,120 3 5	1,47,728 8 9	3,391 10 8	
Total, Sind Circle.	*I.—Timber and other minor produce removed from the Forests by Government Agency—*						
	a. Timber	1,287 3 0	45,397 7 7	46,684 10 7	46,683 10 7	1 0 0	
	b. Firewood and charcoal ...	2,731 14 9	3,16,446 1 0	3,19,177 15 9	3,11,793 2 7	7,384 13 2	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	.....	.....	.....	.....	
	e. Grass and other minor produce	.....	440 4 2	440 4 2	440 4 2	.....	
	II.—Timber and other produce removed from the Forests by Consumers and Purchasers—						
	a. Timber	22 6 1	5,251 9 5	5,273 15 6	5,039 7 3	234 8 3	
	b. Firewood and charcoal ...	.....	26,466 2 6	26,466 2 6	26,466 2 6	.....	
	c. Bámbus	.....	.....	.....	.....	.....	
	d. Grazing and fodder grass ...	3 4 0	42,211 0 9	42,214 4 9	42,211 0 9	3 4 0	
	e. Other minor produce ...	1 0 0	14,777 2 7	14,778 2 7	14,614 2 7	164 0 0	
	III.—Confiscated, Drift and Waif Wood	.....	49 12 0	49 12 0	49 12 0	.....	
	GRAND TOTAL ...	4,045 11 10	4,51,039 8 0	4,55,085 3 10	4,47,297 10 5	7,787 9 5	

T. W. RAWLINS,
Accountant General.

Bombay, Accountant General's Office,
22nd September 1885.

Forest Administration Reports of the Northern, Southern and Sind Circles, 1884-85.

No. 3313.

REVENUE DEPARTMENT.

Bombay Castle, 6th May 1886.

Letter from the Conservator of Forests, Sind Circle, No. 805, dated 21st September 1885—Submitting the Administration Report of the Sind Circle for the year 1884-85.

Memorandum from the Commissioner in Sind, No. 4281, dated 27th October 1885—Submitting his remarks on the above.

Letter from the Conservator of Forests, N. C., No 4238, dated 2nd November 1885—Submitting the Forest Administration Report of the Northern Circle for the year 1884-85, with its subsidiary statements.

Memorandum from the Commissioner, N. D., No. 100, dated 12th January 1886.
Letter from the Commissioner, C. D., No. R-93, dated 8th January 1886.
} Submitting their remarks on the Report of the Northern Circle.

Letter from the Conservator of Forests, S. C., No. 6193, dated 23rd March 1886—Submitting the Forest Administration Report of the Southern Circle for 1884-85, together with its subsidiary statements.

Memorandum from the Commissioner, S. D., No. S.R.-705, dated 31st March 1886—Submitting his remarks on the Report of the Southern Circle.

RESOLUTION.—These reports relate to the year which ended on the 31st March 1885, and in view of the standing orders that they are to be in the hands of Government by the 1st November, the want of punctuality in the submission of the report for the Northern Circle which was received in the middle of January, and of that for the Southern Circle which was not received till the 31st ~~ultimo~~ March 1886, is by no means satisfactory. The reasons given for so great a delay are not sufficient, and the Conservators are requested to prepare their reports for the year which has just expired in good time and to make the necessary arrangements for their submission to Government by the appointed date.

2. The gross forest revenue of the Presidency including Sind, during the year under review, was Rs. 27,74,780 and the net revenue was Rs. 10,57,872, both totals being larger than the corresponding totals of the previous year in which they were Rs. 25,03,099 and Rs. 10,17,111 respectively. The following table shows the distribution of revenue and expenditure between the three forest circles:—

	Gross Revenue.		Expenditure.		Net Revenue.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle ...	9,58,314	10,08,725	5,11,402	6,90,087	4,46,912	3,18,637
Southern Circle ...	9,02,291	12,89,562	4,90,011	6,64,378	4,12,281	6,25,184
Sind Circle	6,42,494	4,76,493	4,84,576	3,62,443	1,57,918	1,14,050

3. In the Northern Circle the gross revenue is described as the largest on record, and though the increase was more than counterbalanced by an increase of expenditure, it is satisfactory to find that over two and a quarter lákhs of rupees out of the total expenditure were spent on objects which, coming under the heads "demarcation, improvement and extension of forests, and compensation for land and rights," are calculated to lead to a further large and an almost immediate increase of revenue.

4. In the Southern Circle the totals of gross and net revenue exceeded those of the previous year by Rs. 3,87,271 and Rs. 2,12,903 respectively, the principal causes being the increased demand on the part of the Southern Marátha Railway Company for sleepers from the Kánara forests, and the "splendid" myrabolan crops in both Kánara and Belgaum.

5. In the Sind Circle, in which alone expenditure was reduced, the revenue both gross and net, fell considerably, the decrease of each amounting to about 25 per cent. This was due almost entirely to the diminished consumption of fuel by the Indus Valley State Railway owing to decrease of traffic on the line. The prospects of the Sind Forest Department are not from a pecuniary point of view very promising. The Commissioner in Sind remarks that its very existence as a revenue-yielding branch of the administration depends on the continuance of the demand for railway fuel, and observes that if the search for petroleum in the Sibi hills results in the discovery of cheaper fuel for railway purposes, the forest establishment will have to be largely reduced. The Conservator gives reasons for thinking that coal is also to be feared as a rival to the firewood supplied by his department. He lays stress on the importance of finding a new source of revenue for the Sind forests, and he is consequently endeavouring to create an export trade in firewood to Bombay and in bábul bark to Europe.

6. In every division of the Sind Circle there was a surplus of receipts over expenditure, but in the Northern Circle the Ahmednagar, Poona, Sátára and South Thána Divisions and in the Southern Circle the two divisions of Bijápur and Ratnágiri were worked at a loss. The explanation given by Colonel Peyton for Bijápur and Ratnágiri is that in the latter division it was thought best to reduce cuttings till reliable working plans could be prepared, and that in the former, in which the produce removed from the forests by Government agency was valued at only Rs. 16, the demand for forest produce on the part of those persons classed as "consumers and purchasers" who were allowed on payment to enter the forests and remove it for themselves, was on account of a bad season less than in the previous year. In the case of these two comparatively bare forest divisions the Governor in Council is aware that the creation of forests is more important than their exploitation, and that much surplus revenue cannot reasonably be expected for some time yet to come. He is glad to learn on Colonel Peyton's authority that "the features of the southern part of Bijápur have quite changed since conservancy was first taken in hand in 1871" and that "bare hills of that period are now in many parts covered with a thick growth of scrub through which many trees of the better species may be seen struggling for existence."

7. Of the divisions in the Northern Circle which were worked at a loss the Governor in Council thinks that the case of South Thána calls for special notice. Apparently the only explanation which the Conservator gives of this result is that mowra flowers were as an experiment collected departmentally and had to be sold owing to various causes at lower prices than those at which they had been purchased. But the figures given in paragraph 154 of the Conservator's report show that in the two Thána divisions combined the total loss on mowra flowers was only about Rs. 26,500 which sum is far less than might reasonably be expected as actual surplus revenue from South Thána, one of the finest forest divisions in the whole Presidency. Inasmuch as, so far as teak trees are concerned, at all events, there can be no reason whatever for supposing that the supply is likely to be exhausted, the Governor in Council is inclined to consider that the timber-felling operations which in this division were limited to 40,000 teak trees might be extended with considerable advantage. A division like South Thána ought not to be obliged to depend so entirely on the success of its sales of minor forest produce, and it need not have to depend on them if care is taken to arrange for the felling of a sufficient number of the more important timber trees. The cause of the deficit in Sátára, Poona and Ahmednagar is apparently not explained. It is satisfactory to find that Sholápur has at last begun to pay its way.

8. The gross revenue, expenditure and net revenue of the different forest divisions are given in the following table which shows also the corresponding totals of the previous year :—

Northern Circle.

	North Thána.		South Thána.		Surat.		Násik.		Panch Mahâls.		West Khándesh.		East Khándesh.		Ahmednagar.		Poona.		Sátára.		Sholápur.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	*	Rs.	*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	†	Rs.	†	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gross Revenue	*	2,08,482	*	1,03,077	1,39,025	1,11,045	1,20,290	97,476	47,750	75,725	†	1,21,702	†	66,551	35,272	44,627	87,375	87,296	49,402	67,678	12,802	24,436
Expenditure	*	65,904	*	1,17,918	35,953	37,970	51,286	56,658	22,666	37,453	†	59,802	†	32,976	38,709	56,430	80,181	94,706	45,428	74,783	20,122	22,928
Net Revenue	*	1,42,578	*	—14,841	1,03,072	73,075	69,004	40,818	25,084	38,272	†	61,900	†	33,575	—3,437	—1,1803	7,194	—7,410	3,974	—7,105	—7,320	1,508

* Total Gross Revenue for North and South Thána for 1883-84 ... ... Rs. 2,96,785
* Total Expenditure for do. do. ... ... ,, 1,07,404
* Total Net Revenue for do. do. ... ... ,, 1,89,381

† Total Gross Revenue for East and West Khándesh for 1883-84 ... ... Rs. 1,65,076
† Total Expenditure do. do. ... ... ,, 79,776
† Total Net Revenue do. do. ... ... ,, 85,300

Southern Circle.

	Belgaum.		Dhárwár.		Bijápur.		Central Division, Kánara.		Northern Division, Kánara.		Southern Division, Kánara.		Kolába.		Ratnágiri.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	*	Rs.	*	Rs.	*	Rs.	Rs.	Rs.	Rs.	Rs.
Gross Revenue	1,32,320	2,42,654	92,655	1,09,585	25,043	18,168	*	2,36,849	*	3,92,498	*	1,80,170	68,042	1,00,888	19,859	8,713
Expenditure	57,964	93,049	45,143	54,170	13,704	19,245	*	1,46,925	*	1,69,509	*	85,917	48,087	52,215	12,092	16,471
Net Revenue	74,356	1,49,605	47,512	55,415	11,339	—1,077	*	89,924	*	2,22,989	*	94,253	19,955	48,673	7,767	—7,758

* Total Gross Revenue for the Northern, Central and Southern Divisions of Kánara for 1883-84 ... Rs. 5,64,372
* Total Expenditure for do. do. do. ... ... ,, 2,90,774
* Total Net Revenue for do. do. do. ... ... ,, 2,73,598

Sind Circle.

	Jacobabad.		Jerruck.		Hyderabad.		Naushahro.		Sukkur.	
	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.	1883-84.	1884-85.
	*	Rs.	*	Rs.	*	Rs.	*	Rs.	*	Rs.
Gross Revenue	*	22,474	*	1,02,878	*	1,05,773	*	85,214	*	1,60,148
Expenditure	*	17,803	*	80,483	*	70,960	*	59,627	*	1,13,860
Net Revenue	*	4,671	*	22,395	*	34,813	*	25,587	*	46,288

* Figures for 1883-84 are not available.

9. It is observed that in all the Sind divisions almost the whole revenue was obtained by the sale of firewood and charcoal. Timber sales account for little more than one-tenth of the revenue of this Circle. Of the divisions in the Northern Circle the greater part of the revenue of Poona, Sátára, Ahmednagar and Sholápur was obtained from grass, and in two divisions, Belgaum and Dhárwár, of the Southern Circle a large revenue was likewise obtained from this source. Extensive fellings of timber trees appear to have been made only in North Thána and in the Kánara divisions. The receipts of the Kánara Saw Mill in the year under review amounted to Rs. 35,248 and the charges to Rs. 5,639 as compared with Rs. 36,423 and Rs. 6,756 respectively in the previous year. Less work was done at the mill than in the previous year owing to the fact that the contractor who had engaged to bring timber logs and sleeper pieces to the mill failed to carry out his agreement. The wastage in the year under review was 18·3 per cent. It is stated that the wastage in the previous year was 19·2 per cent. only and not 30·8 per cent. as given in the report for that year.

10. The Conservator of the Southern Circle describes as "from an administrative point of view the great event of the year" the introduction of the new system of accounts as laid down in the Forest Department Code of the Government of India. Under this system Divisional Forest Officers have become heads of large account offices and are obliged to send in their accounts to the Accountant General direct. Though their office establishments have been strengthened, it is stated that the result of the change is that time which should be spent by the Divisional Forest Officer in inspection work is now given up to laborious desk work. His Excellency in Council however hopes that when the new system is thoroughly understood by the office clerks the Divisional Forest Officers will not be obliged to spend so much time in supervising them, and it is possible that when the newly established working plan branch of the department has arranged for the carrying out of extensive exploitation operations in a limited number of localities in place of the more numerous though less extensive operations which at present the fear of overcutting renders desirable, the account work of the Divisional Forest Officers, owing to the smaller number of items which will have to be dealt with, will be much simplified. It is not possible to return to the old system as recommended by the Commissioner, N. D.

11. Except in the case of a very few forests the preparation of complete working plans has not yet been commenced. The budget estimates of Divisional Forest Officers are however annual working plans, and more elaborate ones cannot be prepared till the forest blocks have been both finally demarcated and thoroughly surveyed. Much progress was made during the year under review both in demarcating forests and in making a topographical survey of them.

12. As the result of the first step in demarcation, *viz.* the selection of land for forests, the changes made during the year under review were as shown in the following table :—

	Area on 1st April 1884.				Added during the year.				Excluded during the year.				Area on 31st March 1885.			
	Reserved Forest.		Protected Forest.		Reserved Forest.		Protected Forest.		Reserved Forest.		Protected Forest.		Reserved Forest.		Protected Forest.	
	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.	Sq. M.	Acres.
Northern Circle...	6,071	626	1,498	161	356	204	180	66	465	593	542	23	6,862	237	1,136	204
Southern Circle...	1,800	45	3,514	227	..	65	..	..	1	403	1	522	1,798	347	3,512	345
Sind Circle ..	628	323	..	..	7	342	..	..	..	..	..	..	636	25	..	..

Of the area of Reserved Forests shown by the Conservator of Forests, N.C., as having been excluded during the year, only 93 square miles and 351 acres were actually disforested. Rectifications of the lists of the previous year, rendered necessary chiefly by the inclusion in them by mistake of a large area of land which had only been provisionally notified as Reserved Forest under Section 4 of the Forest Act, account for the remaining 372 square miles and 242 acres shown as excluded. Only Thána, Khándesh and the Panch Maháls in the Northern Circle contain an appreciable area of Protected Forest and the

tendency of Demarcation Officers in this Circle has been to disforest a portion of such forest and to convert most of the remainder into Reserved Forest—a course which has appeared necessary in consequence of the notification as Protected Forest in 1879, as a temporary expedient, of much waste land which could not then be safely notified as Reserved Forest because sufficiently detailed information regarding its circumstances was not available. In the Sind Circle a different course was followed which, however, has practically led to the same result. In that Circle there is no land in the charge of the Forest Department except Reserved Forest, but the Conservator reports that "there is a large area of waste land covered with scrub jungle which may be described as unreserved forest and the greater part of which is in course of being taken up for Reserved Forest." Of the divisions in the Southern Circle, on the other hand, all except Ratnágiri still contain a large area of Protected Forest, and to what extent such forest will be recommended hereafter by special Demarcation Officers for conversion into Reserved cannot at present be predicted. As the result of demarcation large areas have been notified under Section 4 of the Forest Act as proposed Reserved Forest in the Northern and Sind Circles.

13. As regards the second step in demarcation, consisting of a clear definition of the forest boundary on the ground by means of fences, pillars, &c., hardly any information is furnished by the Conservators. A remark of Colonel Peyton's, to the effect that the boundary-marks laid down by the Revenue Survey Department, though they define the forest limits accurately enough, have to be searched for map in hand, shows the extreme necessity for hastening the completion of this part of demarcation. It must be recollected that ordinary villagers do not go about map in hand and that as a revenue survey boundary-mark is not intended to show whether the land it defines is forest or not, it is, even when readily visible, of very little use to a man who wants to find out whether he is trespassing in a forest or not. The Conservators should report at an early date what measures have already been taken and what measures they propose to take for the purpose of clearly showing on the ground what land is forest and what is not. The Commissioner, C. D., urges the necessity for planting cactus hedges round the forest reserves especially in the plains where the reserves adjoin cultivated lands, but His Excellency in Council while agreeing with Mr. Robertson is of opinion that the necessity for such hedges or for some substitute for them is even greater in the case of those forest blocks which adjoin other well-wooded land not classed as forest or placed in the charge of the Forest Department.

14. In forest settlement, consisting of judicial inquiries made under the Indian Forest Act into the existence of rights in lands either classed as or proposed for classification as forest, considerable progress was made during the year, especially in the Northern Circle. Rights of importance as against Government were not in many cases found to exist, but on the recommendation of the Forest Settlement Officers Government allowed the continuance of many important privileges which those officers reported had been enjoyed as a favour and not as of right. It is observed that in the Northern Circle about Rs. 40,000 are reported as having been spent on "compensation for land and rights."

15. The free grants of wood made during the year under review are shown below :—

	1883-84.	1884-85.
	Rs.	Rs.
Northern Circle ...	3,963	5,938
Southern Circle ...	15,922	20,092
Sind Circle ...	421	320

It is evident from the remarks of the Conservator of Forests, N. C., that these figures do not represent even a small fraction of the amount of wood removed from the forests without payment, for when wood is removed in exercise of any of the extensive privileges conceded by Government it is not shown in the accounts at all. In the three forest divisions of Kánara

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the value of the wood granted free was large, but it is highly satisfactory to learn from Colonel Peyton that the result of this liberality is that the people have got into the way of asking for wood to supply their wants instead of helping themselves as they did formerly. No free grants were made in Dhárwár, Bijápur or Ratnágiri in the Southern Circle, or in Sholápur or Sátára in the Northern. In the Sind Circle the value of the free grants made, which decreased from Rs. 1,258-11-5 in 1882-83 to Rs. 421 in 1883-84, still further decreased during the year under review.

16. Forest protection in the Northern Circle seems to have been very indifferent in Thána, but fairly good elsewhere. In the Southern Circle there were no serious breaches of the Forest Rules, and the Conservator states that the rule requiring the sanction of the Divisional Forest Officer to be given before a prosecution is instituted continues to work well. The pass rule question, though of the highest importance, cannot be considered here.

17. A paragraph quoted by the Conservator of Forests, N. C., from the remarks of the Collector of Thána on the Divisional Forest Officer's administration report calls for special notice. The Collector recommends that houses should be built for forest guards, so that it may be unnecessary for them to live in pátils' houses where their presence is a source of irritation. The Conservator merely remarks that owing to the large number of the forest guards the construction of huts for them all must be a work of successive years. His Excellency in Council however fails to see any reason why each forest guard, not only in the Thána divisions but also in all other divisions, should not be ordered to build a hut for himself, as he was probably accustomed to do before he entered Government service. Plenty of material is available on the spot and a hut does not take long to build. The three Conservators should report at an early date any objections they may see to issuing orders to this effect to their subordinates.

18. The transfer of the Málegaon and Nándgaon Tálukas of Násik from the West Khándesh to the Násik Forest Division, which is recommended in the report of the Conservator, N. C., has already been sanctioned.

19. The Conservators' reports show that they have administered their charges with their usual zeal, and the Governor in Council is glad to find that they speak favourably of all the officers serving under them with a single exception.

H. T. OMMANNEY,
Acting Under Secretary to Government.

To

The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
The Commissioner in Sind,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Conservator of Forests, N. C.,
The Conservator of Forests, S. C.,
The Conservator of Forests, Sind Circle,
The Director of Agriculture,
The Accountant General,
The Editors' Table, Bombay,
The Editors' Table, Poona, care of the City Magistrate, Poona,
The Editor and Propietor, *Dhárwár Vritt*, Dhárwár, for his own use and for circulation to other Editors of newspapers in Dhárwár.

} With copies of the report.

The Government of India,
The Secretary of State for India.

} By letter.